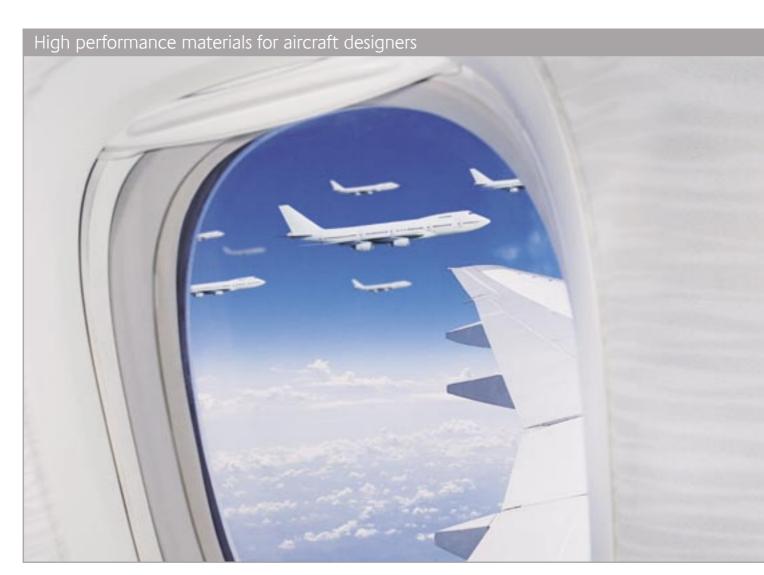
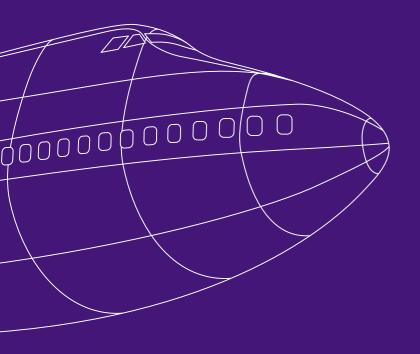
SABIC Innovative Plastics™





Islands in the sky New solutions for aircraft designers



Materials designed for flight...





The SABIC Innovative Plastics difference

SABIC Innovative Plastics has been an important part of the Aerospace industry since its inception. During that time, our advanced materials technology has helped make aircraft more efficient, more enjoyable and safer. In addition to meeting the performance challenges of the civilian sector, SABIC Innovative Plastics' outstanding portfolio also carries the potential to be the material of choice for the military of the 21st century.

Our commitment to innovate never rests, SABIC Innovative Plastics will continually invest in advanced new resin, sheet and composite technology to provide its customers with cutting-edge materials solutions for years to come.

- Lower overall aircraft weight for increased fuel efficiency
- Reduced operational and maintenance costs
- Extended lifetime
- Less cabin noise
- Enhanced passenger safety
- Cutting-edge solutions with ongoing material innovations

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Reaching upward through innovative design and better materials. That impulse has led to aircraft today that are more fuel efficient, increasingly comfortable and safer.

SABIC Innovative Plastics is committed to continuing that trend - to reaching higher - by providing advanced material technologies that enable ever greater weight reduction, higher resistance to impact and chemicals, improved heat performance, more stringent flame retardancy, enhanced smoke and toxicity properties, lower cabin noise and overall performance for both civilian and military aircraft.

Building upon the outstanding historical performance of Lexan* polycarbonate resins and OSU compliant Ultem* resins, SABIC Innovative Plastics is now expanding its portfolio of materials solutions to help aircraft manufacturers develop a new generation of advanced interior components.

The following pages provide more specific guidance on SABIC Innovative Plastics' broad product portfolio of performance, processing and aesthetic options for aircraft interior components. It's only an introduction, so please contact us to learn more about our global supply of high-quality advanced resins and world-class technical support.

Lexan FST resin and XHR sheet

The aircraft industry has for years sought a heat release (OSU) and flame, smoke, toxicity (FST) compliant engineering resin with improved colorability and processing. Now, SABIC Innovative Plastics has delivered.

Lexan FST resin combines the processing window of polycarbonate with the OSU 55/55 capability of PEI resins. Available in pellet form or as Lexan XHR sheet, it offers broad options for applications requiring molded-in color (including bright whites) and indoor weathering performance.

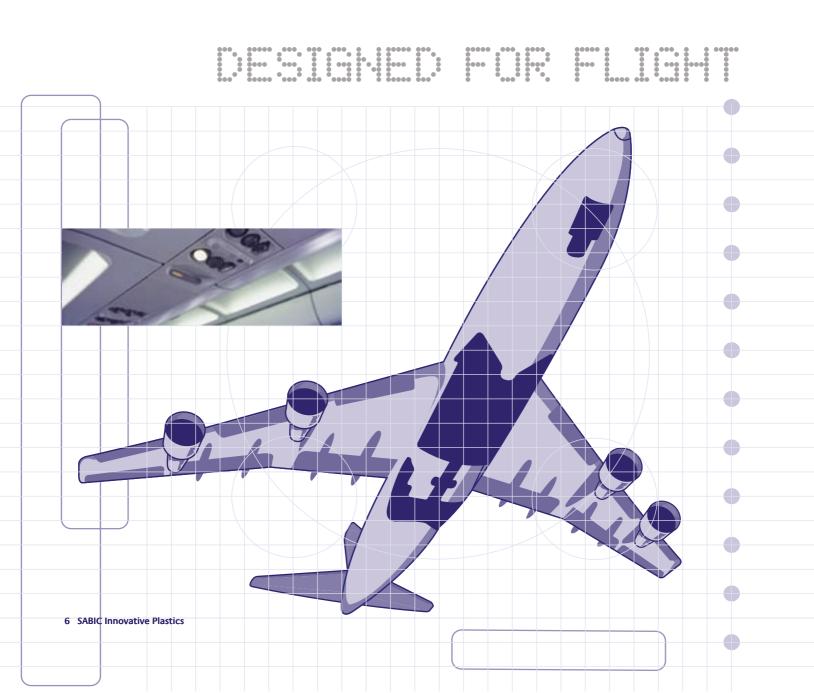
Combined with its full FST compliance, this revolutionary new material can help simplify the supply chain and reduce production costs and weight by eliminating paint. Plus, its high ductility is an attractive solution for parts requiring high abuse tolerance, or for thin-wall applications that require reduced part weight.

This new copolymer platform has potential for other materials such as high clarity, transparent resin and sheet products that will satisfy new industry trends such as larger windows, transparent partitions and stairways, and LED lighting panels.



Lighter and more efficient, modern aircraft make good use of the properties of Lexan polycarbonate and OSUcompliant Ultem resins.

SABIC Innovative Plastics materials deliver more than outstanding dimensional stability for injection molded and profile extruded cabin components. They also provide broad aesthetic options, resistance to fire and compliance with aircraft safety standards.



Flame-resistant Ultem* resins

SABIC Innovative Plastics' broad portfolio of Ultem resins is already a familiar fixture among today's aircraft interiors. This material family combines outstanding heat resistance and flame retardancy, with high modulus and broad chemical resistance.

The underlying materials technology continues to evolve to meet today's challenges in civilian and military aircraft. OSU 55/55 compliant Ultem 9085 resin, a latest advance in technology, has improved upon SABIC Innovative Plastics' benchmark grade Ultem 9075 resin by providing better flow, impact performance and lighter colors while maintaining its high modulus. This enables thinner walls and reduced component weight for applications such as personal service units and bezels.

In addition, the Ultem product family offers other select grades that provide targeted properties, such as higher heat or chemical resistance for injection molded connectors. Ultem grades deliver compliance with the aircraft industry's stringent requirements for aircraft interiors on flammability, smoke density and toxicity including OSU 55/55 capability. The materials' superb heat and fire resistance make them excellent candidates for AC ducts and light holders.

Revolutionary Lexan* FST resins

SABIC Innovative Plastics' new Lexan FST9705 resin is a quantum leap in processing performance offering molded-in colors (including bright whites), enhanced chemical resistance and full FST compliance (including OSU 55/55 capable).

Lexan FST9705 resin's potential for replacing painted parts can help simplify the supply chain, while its high ductility makes it an excellent material of choice for thin-wall applications.

Noryl* and Lexan resins

The low specific gravity of Noryl resins offers a lightweight, dimensionally stable alternative to filled or unfilled polyamides for painted or hidden applications that do not require OSU 65/65 heat release compliance.

SABIC Innovative Plastics has expanded options with Noryl LS6010 resin, which offers non-halogenated flame retardance and low smoke density with the additional capability of producing lighter colored components.

In addition to high impact resistance, the Lexan ML series of engineering resins have historically delivered aesthetic options from crystal clear transparency to high chroma color pigmented applications, while providing fire compliance to vertical burn, smoke density and toxicity.

LNP* specialty compounds

LNP Specialty Compounds business offers solutions for weight reduction, parts consolidation, elimination of secondary operations and improved performance, durability and aesthetics.

For example, reinforcing Ultem resin (PEI) or PEEK with carbon fiber offers a material with very high temperature performance coupled with superb mechanical strength and stiffness. Representative products, such as Thermocomp* EC1006 specialty compounds based on Ultem resin and LC1006 based on PEEK can help replace metal parts.



Vaupell Industrial Plastics aircraft video display molded from Ultem 9075 résin

SABIC Innovative Plastics extruded sheet for flat and thermoformed applications

TIBLE HITTOTALITE FILISCIES EXCITA	dea sheet for hat and thermolom	ica applications
Ultem* 1xxx unfilled resins Ultem 2xxx glass filled resins Ultem CRS5000, XH6000 & 8000 series resins	FAR25.853 OSU 100/100 capable 12 & 60 sec. vertical burn Smoke density and toxicity	Enhanced chemical resistance or high heat for connector applications
Ultem 90x5 unfilled resins series Ultem AR9x00 glass filled resins Lexan* FST9705 resin	FAR25.853 OSU 65/65 12 & 60 sec. vertical burn Smoke density and toxicity BSS7239, ABD0031, SMP800C	 Best-in-class flame, smoke, toxicity Painted and high modulus applications for Ultem resin series Integral color and high impact applications for Lexan FST9705 resin
Lexan ML resins series Lexan 9xxA resins series	FAR25.853 12 & 60 sec. vertical burn Smoke density and toxicity	 Opaque or transparent resins High-impact resistance and colorability Non-OSU applications Low specific gravity applications for Noryl resins
Noryl* LS resins (Noryl LS6010 resin)	FAR25.853 OSU 100/100 capable 12 & 60 sec. vertical burn Smoke density and toxicity	Non-OSU applications needing low smoke Low specific gravity applications



Goodrich Hella Aerospace Lighting System's new passenger service unit using Ultem resin



Air duct using Ultem sheet offering flame resistance, toughness and formability for this application

Sheet and film made from SABIC Innovative Plastics resins enable thinner walls that do not compromise dimensional stability or strength. They can also deliver powerful resistance to flame, smoke and toxicity for the next generation of innovative aircraft components.



Incredibly versatile Lexan* sheet and film

Lexan sheet product family is a familiar fixture aboard today's aircraft, where it provides a broad range of performance options for interior components. Based on exceptionally tough polycarbonate resin, Lexan sheet resins set industry standards for excellent impact strength, outstanding dimensional stability at elevated temperatures and aesthetic versatility.

Specifically, Lexan sheet offers a broad palette of over 250 colors, and no loss of performance or property retention when draped or thermoformed into complex 3-D shapes. The material's low 1.21 g/m² density signals the potential for up to 15% weight reduction compared to PVC-based materials.

The Lexan sheet portfolio also offers a broad range of options for applications needing transparent material. Examples include Lexan MRAC sheet and Lexan FMR604 sheet, which are optical-grade products with a proprietary hard coat for maximum service life. Transparent Lexan F2000 or F2100 sheet, and Lexan 9600 sheet offer uncoated options.

New Lexan XHR sheet

SABIC Innovative Plastics presents a paradigm shift in sheet products that allows thermoforming performance of a standard opaque polycarbonate material while offering molded-in-color capability (including bright whites), texture retention, enhanced chemical resistance and full FST compliance (including OSU 55/55 capable). Lexan XHR6000 sheet's potential for replacing painted parts that are vacuum formed can help simplify the supply chain for Seller-Furnished Equipment (SFE) such as cockpit and flight deck liner parts, and Buyer-Furnished Equipment (BFE) such as Aircraft Seating components.

The list of applications for Lexan sheet is long, encompassing dust pane covers, signage, lighting diffusers, window and lens covers, visors, as well as seating components, window tracks and reveals, and emergency door light fairings. That list will continue to grow. Ask about emerging technology platforms from SABIC Innovative Plastics that could allow the capability for the industry's first clear, FST compliant sheet (including OSU 55/55).

Flame retardant PC Film products FR65, FR60 and FR700 are available for use in safety labels applied on seat-backs or for interior cladding within armrests of business-class seats.

Ultem* sheet and film for full FST compliance

Aircraft designers are already familiar with the excellent design flexibility and outstanding mechanical properties of Ultem 1668A sheet meeting halogen-free requirements with full FST compliance. The material is compatible with thermoformed, pressure-formed, twinsheet-formed or cold-formed applications.

Ultem 1668A sheet offers additional performance benefits including robust compliance to fire tests including toxicity when used in conjunction with leatherbased decorative skins and a variety of adhesive systems used for its bonding to plastic substrate.

Ultem 1668A sheet also provides improved flow capabilities, enabling thinner walls that can translate into 10% to 25% weight savings and lower part costs compared to PVC-based sheet materials. Alternatively, it can offer the opportunity to down-gauge because of its excellent stiffness.

Candidate applications for this advanced material include first-class and business-class seats and cockpit panels.



C17 cockpit panel from Ultem 1668A sheet

SABIC Innovative Plastics extruded sheet for flat and thermoformed applications

		• •
Lexan* Margard* FMR604 sheet Lexan Margard MRAC sheet Lexan F2000/2100 sheet Lexan 9600 sheet	FAR25.853 12 & 60 sec. vertical burn smoke density and toxicity	Transparent and translucent sheet high-impact resistance
Lexan F6000 sheet	FAR25.853 12 & 60 sec. vertical burn smoke density and toxicity	High-impact resistance and opaque
Ultem* 1668A sheet	FAR25.853 OSU 65/65 12 & 60 sec. vertical burn smoke density and toxicity – BSS7239, ABD0031, SMP800C	Best-in-class flame, smoke, toxicity, high modulus and heat
Lexan XHR 6000 sheet	FAR25.853 OSU 65/65 12 & 60 sec. vertical burn smoke density and toxicity – BSS7239, ABD0031, SMP800C	Best-in-class flame, smoke, toxicity Integral color and high impact applications Co-polymer that thermoforms and retains texture like polycarbonate sheet



Seat back made from Lexan F6000 sheet

Composite sheet materials and honeycombs

The optimal balance of light weight, strength and stiffness of Azdel® Aero-Lite® composite from Hanwha L&C Corporation, Cetex® composites from TenCate B.V. and Tubus Bauer honeycombs are based on SABIC Innovative Plastics resins. These materials are designed to help usher in the next generation of lighter, more costefficient aircraft.



Lightweight Azdel® composites

Using SABIC Innovative Plastics resins, Hanwha L&C Corporation has developed Azdel Aero-Lite® products, which expand options for lightweight, dimensionally stable sheet materials. Available from SABIC Innovative Plastics, Azdel composite technology can offer up to 60% lower weight versus aluminum, 30% to 45% weight savings compared to FRP and comparable weight to honeycomb sandwich structures.

The Azdel product-line utilizes two SABIC Innovative Plastics resin technologies, Ultem* or Lexan* highperformance resins. Depending on the base resin, these lightweight thermoformable sheets can offer full FST compliance (including OSU 55/55 capability), or a combination of base properties to form a single high-performance material solution at reduced systems cost.

Azdel sheet can deliver best-in-class performance with regard to fire, smoke, toxicity and heat release. It provides intrinsic ductility compared to traditional thermoset composites, and offers 3-D part design flexibility, improved productivity and reduced secondary operations such as sanding and grinding. Azdel Aero-Lite composite also provides superior noise transmission loss at equal weight versus competitive crush-core composites for sidewall and ceiling panel applications which allows cabin noise reduction.

Fiber-reinforced Cetex® PEI laminates

Using SABIC Innovative Plastics resins, TenCate B.V. has developed Cetex® composites, which expand options for structural, dimensionally stable sheet materials. Developed specifically for aerospace applications, Cetex continuous fiber-reinforced thermoplastic laminates offer a cost-effective alternative to the labor-intensive hand lav-up of thermoset prepregs. Developed by TenCate B.V.

in the Netherlands, these composite laminate materials rely on Ultem's engineering resin to help them offer best-in-class performance for fire, smoke, toxicity and heat release.

Cetex PEI laminates offer up to 30% weight reduction compared to conventional phenolic and epoxy laminates. In addition, they may be manufactured in the natural amber color of Ultem resin, or in a wide variety of custom colors from near white to black. That means that applications such as luggage bins, flooring and galley carts can be manufactured without secondary paint/powder coating operations. If a decorative paint is required, the Ultem-based composite requires no primer and only flash painting for visual aspect. Customers have seen as much as a 75% reduction in paint requirements using the complete system.

Tubus Bauer honevcombs

Combined with Cetex laminates, Tubus Bauer honeycomb offers an ultra-lightweight core material based on either Ultem or Lexan resin. Ultem honeycomb is available for aerospace applications in densities ranging from 48kg/m³ to 144kg/m³, offering a core material solution for applications from luggage bins and partition walls to flooring and cargo liners. Lexan honeycomb is a suitable candidate for non-OSU 65/65 regulated applications.

The unique system solution of Cetex laminate and Tubus Bauer honeycomb core can help reduce manufacturing cycle time against incumbent crushed core methods by as much as 60%. Hot melt compressing, edge folding and/or spin welded inserts all enable the system to advance new solutions for conventional manufacturing limitations.

Sidewall panel made from Azdel Aero-Lite composite





Stow bin made with Cetex 3 system

As long as the aerospace industry continues to launch innovative new designs, SABIC Innovative Plastics will continue to pioneer new material platforms. Today, our cuttingedge solutions include flame-resistant fibers for fabrics and honeycomb, as well as high-temperature foams and halogen-free wire coatings.



Flame-resistant fibers and fabrics

Imagine if every fiber and fabric on the aircraft interior delivered intrinsic flame resistance, as well as low smoke and toxicity. Well, SABIC Innovative Plastics already has.

Our high-performance Ultem* resin can either be spun into fibers by melt spinning, or converted as a solvent-spun hollow fiber or membrane. Fibers made from SABIC Innovative Plastics' heat-resistant PEI resin exhibit high temperature stability because of its comparatively high glass transition temperature (215°C/419°F) versus fibers made of semicrystalline resins such as PPS or PEEK. Ultembased fibers are available in staple, multifilament or spun yarn, and can be dyed using a dispersed dye process or solution. The dyed fibers show good color stability despite exposure to UV and washing.

SABIC Innovative Plastics' flame-resistant fiber technology is an excellent candidate for kick panel fabrics and wall-covering textiles, and offers further potential for seating, flooring and fire-block applications. The technology could also provide an alternative to crush core panels in side-wall and ceiling applications, and may enable honeycomb structures for lightweight structures demanding full FST compliance.

Wire, cable and conduit applications

Although largely unseen, the miles and miles of wire insulation that fill today's aircraft add weight and bulk, and carry the risk of releasing potentially toxic fumes in the event of a fire. Siltem* resins offer an alternative to conventional materials such as ETFE and PEEK.

As a siloxane-polyether-imide copolymer resin, Siltem resin offers a combination of flexibility, halogen-free chemistry, low toxicity performance and a 30 to 70% lower specific gravity than conventional insulation materials – enabling lower bundle weight and space. Siltem resins may also enable dynamic convoluted tubing for conduit, or for extremely flexible and abuse-resistant profile extrusions.

Ultem foam

Lower weight systems are very important for aircraft interior applications. Imagine if you could have a material with the inherent flame, smoke and toxicity performance of Ultem resin but at a density that is up to 30 times lower than the resin itself.

SABIC Innovative Plastics' naturally flame resistant PEI resin can be made into a rigid foam for a structural core in multi-layer systems. Compared to conventional aramid honeycomb systems, Ultem foam offers full FST compliance, lower moisture absorption, better energy absorption properties and low dielectric loss.





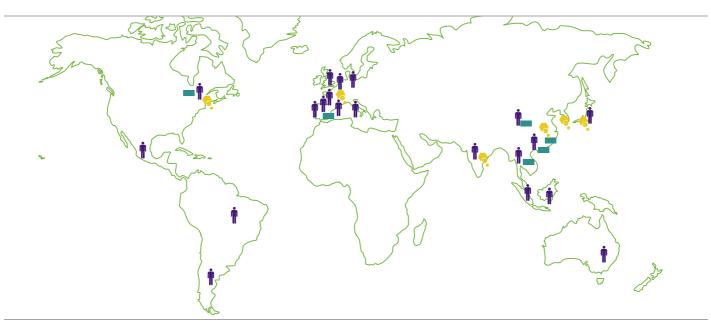
The value SABIC Innovative Plastics offers begins with our broad portfolio of highperformance engineering resins, which provide an impressive variety of performance qualities from halogen-free flame resistance, to lightweight dimensional stability, to flexible design and outstanding aesthetics.

Performance, however, is only part of SABIC Innovative Plastics' story. We also back our materials with a Global Application Technology (GApT) organization that provides a six-phase innovation process (Six Sigma) specially designed to help customers develop, analyze and optimize materials and processes for custom applications in aircraft interiors.

With GApT Centers located in Shanghai, China; Moka, Japan; Bangalore, India; Bergen Op Zoom, The Netherlands; Seoul, Korea; Southfield, Mich. and Pittsfield, Mass.; SABIC Innovative Plastics can

provide advanced materials expertise to customers around the globe. Application development specialists at each Center are available to help customers research and identify candidate materials, and find the technical resources they need to help evaluate SABIC Innovative Plastics materials in new applications.

Plus, with over 92 manufacturing, technology and joint venture facilities, SABIC Innovative Plastics is prepared to help you find a materials solutions to meet virtually any application requirement.





Global employees

92 locations worldwide include manufacturing technology and joint-venture sites in 21 countries.

Global capacity investments

Mt. Vernon, IN – Lexan Resin Copolymer Retrofit Spain – Ultem Resin Plant Cartageña, Spain – Lexan Resin Expansion Plant China – Compounding Expansion



Global application technology centers

Pittsfield, MA – Polymer Processing Development Center Southfield, MI – Global Technology Center Bergen Op Zoom, The Netherlands – European Processing Center Shanghai, China – China Technology Center Bangalore, India – Welch Technology Center Moka, Japan - Moka Technology Center Seoul, Korea – Korea Technology Center

Properties of key products for aircraft interiors¹

Injection molding and profile extrusion resins Thermocomp* EC 1006 Thermocomp LC-1006 Carbon fiber Carbon fiber Opaque glass-filled Opaque glass-filled Type Opaque Opaque Opaque Opaque Opaque & filled ultem filled PEEK transparent Tensile ASTM 13900 12100 21900 15900 24400 28420 32625 10700 9700 (Mpa) D638 (96)(84)(151)(110)(168)(196)(225)(74)(67)strength Tensile 2818800 355000 ASTM 479000 499000 1010000 519000 1350000 4458750 NA^2 modulus (Mpa) (3300)(3440)(6960)(3580)(9300)(19440)(30750)(2450)D638 Tensile strain % **ASTM** 90 @ break D638 20000 Flexural MT2A 20900 29900 23900 32900 40600 47125 16500 15200 (144)strength (Mpa) D790 (138)(206)(165)(227)(280)(325)(114)(105)423000 1049000 509000 1299000 2634650 357000 392000 **Flexural ASTM** 469000 2929000 (Mpa) (3240)(7230)(3510)(8960)(18170)(20200)(2460)modulus (2920)(2700)Izod impact, ft-lb/in **ASTM** 1.3 (69) 2.2 (115) 1.9 (101) 1 (53) 1.6 (85) 0.8 (42) 1.4 (74) 3.2 (174) 1.7 (90) notched (J/m) D256 HDT@264 psi Deg. C 188 153 (307) 211 201 (394) 210 (410) 217 (423) >298 (>568) 121 (249) 146 (295) (372)(412)OSU 65/65, NA^2 NA^2 (<55/55)(>100/100) heat release 25.853 (<55/55)(<55/55)(<100/100) (<100/100) (<55/55) NA^2 NA^2 12 second FAR Pass Pass Pass Pass² Pass³ Pass Pass³ 25.853 vertical burn 60 second Pass Pass Pass Pass³ Pass³ NA^2 NA^2 Pass Pass³ vertical burn 25.853 FAR Pass³ NA NA^2 Pass Smoke Pass Pass Pass Pass³ Pass³ 25.853 density, 4 mins OEM BSS7239 Pass³ Pass³ Pass³ Pass³ Pass³ Pass³ Pass³ Pass³ Pass³ toxicity ABD0031 SMP800C Specific **ASTM** 1.51 1.41 1.3 1.34 1.4 1.27 1.39 1.34 1.28 D792 gravity g/10 Melt flow **ASTM** 2.4@295C 8.91@295C 5.7@337C 9 @ 337C 5@337C 4.4 @ 345C 7.5 @ 400C 5.9@300C 2.8 @ 300C rate min D1238 & 6.7 kgf & 6.7 kgf & 6.6 kgf & 6.6 kgf & 6.6 kgf & 1.2kg & 1.2kg 350-370 (660-700) 365-390 (690-730) 280-305 (540-580) 330-350 350-400 350-400 350-400 320-345 Processing Deg. C 348 - 394

(660-750)

(660-750)

(660-750)

(630-660)

(F)

temp, range

³ This resin or sheet product passes this test, however manufactured lots are not certified.



(660-740)

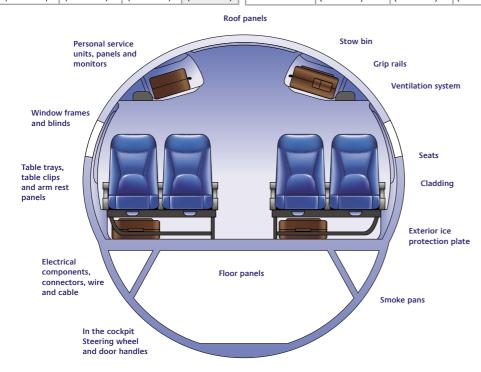
(610-650)

¹ This is not a complete list of products from SABIC Innovative Plastics. Product properties shown are indicative and not for specification purposes. Please contact SABIC Innovative Plastics for detailed information such as datasheets and processing guidelines.

² Data not available.

Lexan ML4539 resin	Lexan 940A resin	Lexan 953A resin	Noryl* LS6010 resin
Opaque & transparent	transparent FR	Transparent FR	Opaque
8900 (62)	8900 (62)	8900 (62)	9200 (64)
NA ²	314730 (2170)	NA ²	321000 (2220)
90	90	90	20
13100 (91)	13100 (91)	13100 (91)	14500 (100)
324000 (2240)	324000 (2240)	324000 (2240)	346000 (2390)
12 (640)	12 (640)	12 (640)	5.6 (300)
137 (270)	137 (270)	137 (270)	122 (251)
No (>100/100)	No (>100/100)	No (>100/100)	No (<100/100)
Pass ³	Pass ³	Pass ³	Pass ³
Pass ³	Pass ³	Pass ³	Pass ³
Pass ³	Pass ³	Pass ³	Pass ³
Pass ³	Pass ³	Pass ³	Pass ³
1.21	1.21	1.21	1.11
9 @ 300C & 1.2kg	10 @ 300C & 1.2kg	7 @ 300C & 1.2kg	5.6 (280C, 5kg)
295-315 (560-600)	295-315 (560-600)	295-315 (560-600)	220 -260 (430 - 500)

Extruded	d sheet and	d thermo	oformino	produ	ıcts	
Lexan Margard* MRAC sheet	Lexan Margard FMR604 sheet	Lexan F2000 sheet	Lexan F9600 sheet	Lexan F6000 sheet	Lexan XHR6000 sheet	Ultem 1668A sheet
Transparent Non-Formable	Transparent drape-formable	Transparent FR	Transparent	Opaque	Opaque	Opaque
10000 (69)	10000 (69)	9500 (60)	9500 (60)	9000 (62)	10400 (72)	13100 (90)
245000 (1689)	240000 (1655)	333000 (2300)	235000 (1620)	325000 (2240)	379000 (2615)	335000 (2310)
>80	>80	80	95	95	102	35
14000 (97)	14000 (97)	14500 (100)	13500 (93)	13200 (91)	16600 (115)	20400 (141)
350000 (2413)	345000 (2379)	334000 (2300)	370000 (2551)	325000 (2241)	362000 (2500)	460000 (3172)
2.4 (128)	2.4 (128)	11.2 (600)	2.4 (128)	12 (643)	3.6 (196)	1.4 (75)
132 (270)	137 (280)	138 (280)	137 (280)	132 (270)	121 (249)	189 (373)
No (>100/100)	No (>100/100)	No (>100/100)	No (>100/100)	No (>100/100)	Yes (<55/55)	Yes (<55/55)
Pass ³	Pass ³	Pass ³	Pass ³	Pass ³	Pass	Pass
Pass ³	Pass ³	Pass ³	Pass ³	Pass ³	Pass	Pass
Pass ³	Pass ³	Pass ³	Pass ³	Pass ³	Pass	Pass
Pass ³	Pass ³	Pass ³	Pass ³	Pass ³	Pass ³	Pass ³
1.26	1.23	1.23	1.26	1.21	1.34	1.3
NA ²	NA ²	NA ²	NA ²	NA ²	NA ²	NA ²
NA ²	157-160 (315-320)	177-204 (350-400)	177-204 (350-400)	177-204 (350-400)	165-200 (330-390)	260-288 (500-550)









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