SABIC Innovative Plastics™

Lexan* DSP 155 Sheet



Description Lexan* DSP 155 sheet is an opaque sheet material extruded from SABIC Innovative Plastics recycled polycarbonate resins. Lexan DSP 155 sheet material is suitable for a wide range of flat or vacuum formed applications such as material handling trays or pallets. Lexan DSP 155 sheets provide: High impact resistance, optimal cost/performance ratio, excellent formability, and recyclability.

Typical Property Values +

Test Method	Unit	Value
ASTM 1183	a/cm ³	1.20
A310 1105	g/ cm	1.20
	MPa	2500
SADIC Method	J	>30
	J	>30
ISO 306	°C	135
ISO 75	٥C	125
DIN 53752	m/m°C	7x10 ⁻⁵
ISO 4589	%	25
IEC 93	Ohm.m	1015
IEC 93	Ohm	10 ¹⁵
	ASTM 1183 ASTM D790 SABIC Method ISO 306 ISO 75 DIN 53752 ISO 4589 IEC 93	ASTM 1183 g/cm³ ASTM D790 MPa SABIC Method J J J ISO 306 °C ISO 75 °C DIN 53752 m/m°C ISO 4589 % IEC 93 Ohm.m

These property values have been derived from Lexan*resin data for the material used to produce this sheet product. Trademarks of SABIC Innovative Plastics IP BV ♦ *



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Product Datasheet

Processing

Lexan* DSP 155 sheet is an excellent candidate for thermoforming applications. It can offer high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results. Lexan DSP 155 sheet has a forming temperature range of 185 -205°C. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of 0.6 - 0.8% taken into account.

Chemical Resistance

Lexan DSP 155 sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. In applications where the Lexan DSP 155 sheet will come into contact with aggressive chemicals, specific (application related) testing is always advised. Effective painting systems can improve chemical resistance.

Pre-drying

It is important to ensure that Lexan DSP 155 sheets are free of moisture prior to thermoforming. A hot air circulating oven set at 120°C is recommended. Pre-drying times vary from 3-24 hours, depending on sheet thickness

Assembling

Parts made from Lexan DSP 155 sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult SABIC Innovative Plastics, Specialty Film & Sheet for advice on specific applications.

Further information and advice is available on request.

Painting

Lexan DSP 155 sheet is an excellent candidate for use with a wide variety of modern decoration techniques. A list of approved paint systems and suppliers is available upon request.

Lexan*ToughPolycarbonate SheetVirtuallyUnbreakable

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