

Description

BS300 sheet is an industrial grade sheet material extruded from a blend SABIC Innovative Plastics internally reworked polycarbonate resins along with virgin material.

BS300 sheet was designed for the specific needs of bug shield manufacturers and is also an excellent candidate for non-aesthetic applications requiring impact resistance, good heat resistance, in both flat and thermoformed applications.

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Specific Gravity	ASTM D792	-	1.20
Initial Haze		HU	<1
Mechanical			
Tensile Strength, Yield	ASTM D638	psi	8,000
Tensile Modulus	ASTM D638	psi	310,000
Flexural Modulus	ASTM D790	psi	310,000
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature	ASTM D648	°F	
@ 264 psi (average at 0.118")			270
@ 66 psi (average at 0.118")			280

♦ These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative

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Processing

BS300 sheet can be used for thermoforming. It offers 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. BS300 sheet has a forming temperature range of 350-400°F. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of .007-.009 in/in taken into account.

Pre-drying

It is important to ensure that BS300 sheet is free of moisture prior to thermoforming. A hot air circulating oven set at 250°F is recommended. Pre-drying times vary from 3-24 hours, depending on sheet thickness.

Assembling

Parts made from BS300 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, for advice on specific applications

Product code:	BS300
Textures/Masking:	Polished / Polished, Cling Stick 28 masking TOP + BOTTOM
Colors Standard:	51161 (Dark bronze)
Orientation tape:	Top side

Painting

BS300 sheet is well-suited for use with a wide variety of modern decoration techniques. A list of approved paint systems and suppliers is available upon request.

Chemical Resistance

BS300 sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. Specific (application related) testing is always advised, especially in applications where the BS300 sheet will come into contact with aggressive chemicals.



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