

## SABIC Innovative Plastics Lexan® IP300 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Improved toughness/impact strength at ambient/low temperatures for automotive instrument panels, knee bolsters and trim. Range gray and black only. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-IP300-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-IP300-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	18 g/10 min @Load 1.20 kg, Temperature 300 °C	18 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	65	65	ASTM D 785
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	75 %	75 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.13 GPa	309 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	5.01 J/cm @Temperature -30.0 °C	9.39 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	5.87 J/cm @Temperature 23.0 °C	11.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Impact Test	50.0 J @Temperature 23.0 °C	36.9 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763
	50.0 J @Temperature -30.0 °C	36.9 ft-lb @Temperature -22.0 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	121 °C  @Thickness 3.20 mm	250 °F  @Thickness 0.126 in	unannealed; ASTM D 648

## Contact Songhan Plastic Technology Co.,Ltd.

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