

SABIC Innovative Plastics Lexan® 133R PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-133R-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ASTM D570
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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Yield	62.0 MPa	8990 psi	SABIC - Japan Method
Elongation at Break	220 %	220 %	SABIC - Japan Method
Flexural Strength	93.0 MPa	13500 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	8.33 J/cm	15.6 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -30.0 - 30.0 $^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -22.0 - 86.0 $^\circ\text{F}$	TMA
Deflection Temperature at 0.46 MPa (66 psi)	135 $^\circ\text{C}$ @Thickness 3.20 mm	275 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.2 @Frequency 50.0 - 60.0 Hz	3.2 @Frequency 50.0 - 60.0 Hz	ASTM D150

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