

SABIC Innovative Plastics Lexan® 3433R PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

30% GR, provides improved mechanical properties. UV-stabilized. Internal mold release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-3433R-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Density	1.439 g/cc	0.05199 lb/in ³	ASTM D792
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ASTM D570
Moisture Absorption at Equilibrium	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	19 g/10 min @Load 5.00 kg, Temperature 300 °C	19 g/10 min @Load 11.0 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	158 MPa	22900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.21 J/cm	21.00 ft-lb/in	ASTM D4812
Tensile Impact Strength	67.0 kJ/m ²	31.9 ft-lb/in ²	Type S; ASTM D1822
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	ASTM D3029
Taber Abrasion, mg/1000 Cycles	24	24	CS-17, 1 kg; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	12.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM E 831
	@Temperature -40.0 - 95.0 $^{\circ}\text{C}$	@Temperature -40.0 - 203 $^{\circ}\text{F}$	
Specific Heat Capacity	1.13 J/g- $^{\circ}\text{C}$	0.270 BTU/lb- $^{\circ}\text{F}$	ASTM C351
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	151 $^{\circ}\text{C}$	304 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	146 $^{\circ}\text{C}$	295 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	154 $^{\circ}\text{C}$	309 $^{\circ}\text{F}$	Rate B/50; ASTM D1525

Descriptive Properties	Value	Comments
Specific Volume	0.69cm ³ /g	ASTM D792

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China