

SABIC Innovative Plastics Lexan® FXG154 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

FXG154 is a Lexan PC grade with the Diamond effect. Color Package may affect properties, Application testing always recommended.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FXG154-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.0900 %	0.0900 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.15 %	0.15 %	ISO 62
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	2.5 g/10 min @Load 3.80 kg, Temperature 200 °C	2.5 g/10 min @Load 8.38 lb, Temperature 392 °F	ASTM D1238
Melt Index of Compound	2.0 g/10 min @Load 5.00 kg, Temperature 220 °C	2.0 g/10 min @Load 11.0 lb, Temperature 428 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	5 mm/min; ISO 527
	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
	61.0 MPa	8850 psi	5 mm/min; ISO 527
Elongation at Break	39 %	39 %	Type I, 5 mm/min; ASTM D638
	75 %	75 %	5 mm/min; ISO 527
Elongation at Yield	5.9 %	5.9 %	Type I, 5 mm/min; ASTM D638
	6.2 %	6.2 %	5 mm/min; ISO 527
Tensile Modulus	2.43 GPa	352 ksi	1 mm/min; ISO 527
	2.68 GPa	389 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	2 mm/min; ISO 178
	2.39 GPa	347 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.52 J/cm	14.1 ft-lb/in	ASTM D256
	1.42 J/cm	2.66 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	51.0 kJ/m ²	24.3 ft-lb/in ²	80*10*4; ISO 180/1A
	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	5.80 J/cm ²	27.6 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	62.0 J	45.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	264 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 °C	271 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	147 °C	297 °F	Rate B/50; ISO 306

Thermal Properties	149 °C Metric	300 °F English	Rate B/120; ISO 306 Comments
	153 °C	307 °F	Rate B/50; ASTM D1525

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