

Sax Polymers SAXALEN PPH325GK20 Polypropylene Homopolymer, 20% Glass Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

SAXALEN PPH325GK20 is a 10% glass-fiber and 10% glass-beads filled Polypropylene - Homopolymer intended for injection molding. It has a increased stiffness and a optimized warpage grade. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXALEN-PPH325GK20-Polypropylene-Homopolymer-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 230 °C	15 g/10 min @Load 4.76 lb, Temperature 446 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	46.0 MPa	6670 psi	5 mm/min; ISO 527-1
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527-1
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527-1
Flexural Strength	79.0 MPa	11500 psi	2 mm/min; ISO 178
Flexural Modulus	2.70 GPa	392 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	29.0 kJ/m ² @Temperature 23.0 °C	13.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	2.00 J/cm ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	3.60 J/cm ² @Temperature 23.0 °C	17.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric /cm ²	English lb/in ²	Comments
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	125 °C	257 °F	B/120; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 250 °C	428 - 482 °F	
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	

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