

Sax Polymers SAXALEN PPH304G25 Polypropylene Homopolymer, 25% Glass Filled

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

Material Notes:

SAXALEN PPH304G25 is a 25% glass filled Polypropylene - Homopolymer intended for injection molding. This compound is characterized by high stiffness good impact resistance und reduced creep under load. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXALEN-PPH304G25-Polypropylene-Homopolymer-25-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	78.0 MPa	11300 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	5.30 GPa	769 ksi	1 mm/min; ISO 527-1
Flexural Strength	100 MPa	14500 psi	2 mm/min; ISO 178
Flexural Modulus	4.40 GPa	638 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	43.0 kJ/m ² @Temperature 23.0 °C	20.5 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	4.80 J/cm ² @Temperature 23.0 °C	22.8 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
	0.900 J/cm ²	4.28 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)	137 °C	279 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	135 °C	275 °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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