

Sax Polymers SAXALEN PPH319FX21 Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

SAXALEN PPH319FX21 is a unfilled Polypropylene - Homopolymer intended for injection molding. It has flame retardant properties and suitable to produce thin-walled parts. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXALEN-PPH319FX21-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	
Melt Flow	26 g/10 min @Load 2.16 kg, Temperature 230 °C	26 g/10 min @Load 4.76 lb, Temperature 446 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	36.0 MPa	5220 psi	50 mm/min; ISO 527-1
Elongation at Break	6.0 %	6.0 %	50 mm/min; ISO 527-1
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min; ISO 527-1
Flexural Strength	35.0 MPa	5080 psi	2 mm/min; ISO 178
Flexural Modulus	1.20 GPa	174 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/m ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	55.0 kJ/m ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	1.50 J/cm ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU

Mechanical Properties	8.50 J/cm ² Metric	40.4 ft-lb/in ² English	Comments ISO 179/1eJ
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.200 J/cm ² @Temperature -30.0 Â°C	0.952 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179/1eA
	0.400 J/cm ² @Temperature 23.0 Â°C	1.90 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 Â°C	248 Â°F	80*10*4 s=60mm; ISO 75-1 a
Flammability, UL94	V-2	V-2	

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	
Mold Temperature	40.0 - 70.0 Â°C	104 - 158 Â°F	

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