

## Sax Polymers SAXALEN PPH121GK30 Polypropylene Homopolymer, 30% Glass Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

### Material Notes:

SAXALEN PPH121GK30 is a 20% glass-fiber and 10% glass-beads filled Polypropylene - Homopolymer intended for injection molding. This type has a higher 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-PPH121GK30-Polypropylene-Homopolymer-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Sax-Polymers-SAXALEN-PPH121GK30-Polypropylene-Homopolymer-30-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 230 °C	19 g/10 min @Load 4.76 lb, Temperature 446 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	52.0 MPa	7540 psi	5 mm/min; ISO 527-1
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527-1
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527-1
Flexural Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178
Flexural Modulus	2.90 GPa	421 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
	6.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1U
	28.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	13.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	1.70 J/cm <sup>2</sup> @Temperature -30.0 °C	8.09 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	2.80 J/cm <sup>2</sup> @Temperature 23.0 °C	13.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU

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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	123 °C	253 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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