

Sax Polymers SAXALEN PPH305G30 Polypropylene Homopolymer, 30% Glass Filled

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

Material Notes:

SAXALEN PPH305G30 is a 30% glass filled Polypropylene - Homopolymer injection molding grade with high stiffness, low creep under load and good flow properties. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXALEN-PPH305G30-Polypropylene-Homopolymer-30-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|--------------------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | |
| Melt Flow | 13 g/10 min @Load 2.16 kg, Temperature 230 °C | 13 g/10 min @Load 4.76 lb, Temperature 446 °F | from MVR; ISO 1033 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|--|--|---------------------|
| Tensile Strength | 85.0 MPa | 12300 psi | 5 mm/min; ISO 527-1 |
| Elongation at Break | 3.0 % | 3.0 % | 5 mm/min; ISO 527-1 |
| Tensile Modulus | 6.20 GPa | 899 ksi | 1 mm/min; ISO 527-1 |
| Flexural Strength | 123 MPa | 17800 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 5.20 GPa | 754 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 8.00 kJ/m ² @Temperature -30.0 °C | 3.81 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1A |
| | 10.0 kJ/m ² @Temperature 23.0 °C | 4.76 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 |
| | 44.0 kJ/m ² @Temperature 23.0 °C | 20.9 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 |

| Mechanical Properties | Metric | English | Comments |
|------------------------|---------------------------|----------------------------|-------------|
| | 0.90 J/cm ² | 23.8 ft-lb/in ² | ISO 179/1eU |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Charpy Impact, Notched | 0.900 J/cm ² | 4.28 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| | 1.10 J/cm ² | 5.23 ft-lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |

| Thermal Properties | Metric | English | Comments |
|--|---------|---------|----------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 142 Â°C | 288 Â°F | 80*10*4 s=60mm; ISO 75-1 a |
| Vicat Softening Point | 138 Â°C | 280 Â°F | B/120; ISO 306 |

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

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