

SABIC Innovative Plastics LNP Thermocomp OFJ66 PPS - Linear (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Thermocomp* OFJ66 is a compound based on PPS - Linear resin containing Glass Fiber, Mineral. Added features of this material include: Low Warpage. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-OFJ66-PPS-Linear-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------------------|---------------------------|--------------------|
| Density | 1.95 g/cc | 0.0704 lb/in ³ | ISO 1183 |
| | 1.96 g/cc | 0.0708 lb/in ³ | ASTM D 792 |
| Moisture Absorption at Equilibrium | 0.030 % | 0.030 % | 50% RH; ASTM D 570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0020 cm/cm | 0.0010 - 0.0020 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.010 cm/cm | 0.010 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.030 cm/cm | 0.030 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|-------------------|
| Tensile Strength at Break | 130 MPa | 18900 psi | ISO 527 |
| | 134 MPa | 19400 psi | ASTM D 638 |
| Elongation at Break | 1.2 % | 1.2 % | ASTM D 638 |
| | 1.2 % | 1.2 % | ISO 527 |
| Tensile Modulus | 19.0 GPa | 2760 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 199 MPa | 28900 psi | ASTM D 790 |
| | 210 MPa | 30500 psi | ISO 178 |
| Flexural Modulus | 18.8 GPa | 2730 ksi | ISO 178 |
| | 19.21 GPa | 2786 ksi | ASTM D 790 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---|--|---------------------|
| Izod Impact, Notched | 0.430 J/cm @Temperature 23.0 Â°C | 0.845 ft-lb/in @Temperature 73.4 Â°F | ASTM D 256 |
| Izod Impact, Notched (ISO) | 6.00 kJ/mÂ² @Temperature 23.0 Â°C | 2.86 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 20.0 kJ/mÂ² @Temperature 23.0 Â°C | 9.52 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|--|--|---|----------------------------------|
| CTE, linear, Parallel to Flow | 19.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 10.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| | 19.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 10.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 24.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 13.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ISO 11359-2 |
| | 30.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 17.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| Deflection Temperature at 1.8 MPa (264 psi) | 270 Â°C | 518 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 265 Â°C @Thickness 3.20 mm | 509 Â°F @Thickness 0.126 in | unannealed; ASTM D 648 |

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