

SABIC Innovative Plastics LNP THERMOCOMP RF006S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF006S is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include:
Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006S-PA-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|------------------------------------|
| Specific Gravity | 1.41 g/cc | 1.41 g/cc | ASTM D792 |
| Density | 1.40 g/cc | 0.0506 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.640 % | 0.640 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.940 % | 0.940 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0090 - 0.020 cm/cm | 0.0090 - 0.020 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|-----------------------------------|
| Tensile Strength at Break | 159 MPa | 23100 psi | ASTM D638 |
| | 160 MPa | 23200 psi | 5 mm/min; ISO 527 |
| | 167 MPa | 24200 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | ASTM D638 |
| | 2.4 % | 2.4 % | Type I, 5 mm/min; ASTM D638 |
| | 2.4 % | 2.4 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 10.57 GPa | 1533 ksi | 1 mm/min; ISO 527 |
| | 11.42 GPa | 1656 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 233 MPa | 33800 psi | ISO 178 |
| | 242 MPa | 35100 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Yield Strength | 243 MPa | 35200 psi | 1.3 mm/min, 50 mm span; ASTM D790 |

| Flexural Modulus Mechanical Properties | 9.40 GPa Metric | 1360 ksi English | 2 mm/min: ISO 178 Comments |
|---|------------------------------------|-------------------------------------|-----------------------------------|
| | 9.70 GPa | 1410 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 10.3 GPa | 1490 ksi | ASTM D790 |
| Izod Impact, Notched | 0.670 J/cm | 1.26 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 6.00 kJ/m ² | 2.86 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 44.0 kJ/m ² | 20.9 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 6.00 J @Temperature 23.0 Â°C | 4.43 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |
| Impact Test | 2.00 J | 1.48 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 27.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 15.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| CTE, linear, Transverse to Flow | 98.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 54.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 255 Â°C | 491 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa (264 psi) | 236 Â°C | 457 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 246 Â°C @Thickness 3.20 mm | 475 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

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