

SABIC Innovative Plastics LNP Thermocomp PF007 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Thermocomp* PF007 is a compound based on Nylon 6 resin containing Glass Fiber. 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-PF007-PA-6-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------------------|---------------------------------|------------|
| Density | 1.43 g/cc | 0.0517 lb/in ³ | ASTM D 792 |
| Linear Mold Shrinkage, Flow | 0.0080 cm/cm @Time 86400 sec | 0.0080 in/in @Time 24.0 hour | ASTM D 955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------------------|--|-----------------------|
| Tensile Strength at Break | 173 MPa | 25100 psi | ASTM D 638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM D 638 |
| Tensile Modulus | 11.96 GPa | 1735 ksi | 50 mm/min; ASTM D 638 |
| Flexural Strength | 255 MPa | 37000 psi | ASTM D 790 |
| Flexural Modulus | 9.14 GPa | 1330 ksi | ASTM D 790 |
| Izod Impact, Notched | 1.44 J/cm @Temperature 23.0 °C | 2.70 ft-lb/in @Temperature 73.4 °F | ASTM D 256 |
| Izod Impact, Unnotched | 12.22 J/cm @Temperature 23.0 °C | 22.89 ft-lb/in @Temperature 73.4 °F | ASTM D 4812 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C @Thickness 3.20 mm | 401 °F @Thickness 0.126 in | unannealed; ASTM D 648 |

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