

SABIC Innovative Plastics LNP THERMOCOMP PF00A PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF00A is a compound based on Nylon 6 resin containing Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF00A-PA-6-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|------------------------------------|
| Density | 1.57 g/cc | 0.0567 lb/in ³ | ASTM D792 |
| | 1.57 g/cc | 0.0567 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.830 % | 0.830 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.970 % | 0.970 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 213 MPa | 30900 psi | ASTM D638 |
| | 214 MPa | 31000 psi | ISO 527 |
| Elongation at Break | 2.8 % | 2.8 % | ASTM D638 |
| | 3.0 % | 3.0 % | ISO 527 |
| Tensile Modulus | 17.09 GPa | 2479 ksi | 50 mm/min; ASTM D638 |
| | 17.25 GPa | 2502 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 318 MPa | 46100 psi | ISO 178 |
| | 328 MPa | 47600 psi | ASTM D790 |
| Flexural Modulus | 12.29 GPa | 1783 ksi | ASTM D790 |

| Mechanical Properties | Metric 12.38 GPa | English 1795 ksi | Comments ISO 178 |
|------------------------------|------------------------|----------------------------|--|
| Izod Impact, Notched | 1.76 J/cm | 3.30 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 18.0 kJ/m ² | 8.57 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 94.0 kJ/m ² | 44.7 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 18.0 J | 13.3 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 22.0 J | 16.2 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|-------------------------------|--------------------------------|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Â°C | 410 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 198 Â°C @Thickness 3.20 mm | 388 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

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