

SABIC Innovative Plastics LNP THERMOCOMP D451 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* D451 (or EXTC8141) is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: High modulus, good flatness, good ductility, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-D451-PC-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|--|---|
| Density | 1.52 g/cc | 0.0549 lb/in ³ | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0025 cm/cm @Time 86400 sec | 0.0010 - 0.0025 in/in @Time 24.0 hour | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0010 - 0.0025 cm/cm @Time 86400 sec | 0.0010 - 0.0025 in/in @Time 24.0 hour | ASTM D955 |
| Melt Flow | 17.9 g/10 min @Load 2.16 kg, Temperature 300 Â°C | 17.9 g/10 min @Load 4.76 lb, Temperature 572 Â°F | ASTM D1238 |
| | 57 g/10 min @Load 5.00 kg, Temperature 300 Â°C | 57 g/10 min @Load 11.0 lb, Temperature 572 Â°F | ASTM D1238 |
| Melt Index of Compound | 14 g/10 min @Load 2.16 kg, Temperature 300 Â°C | 14 g/10 min @Load 4.76 lb, Temperature 572 Â°F | MVR [cm ³ /10 min]; ISO 1133 |
| | 42 g/10 min @Load 5.00 kg, Temperature 300 Â°C | 42 g/10 min @Load 11.0 lb, Temperature 572 Â°F | MVR [cm ³ /10 min]; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|---------------|-----------------------------------|
| Tensile Strength at Break | 143 MPa | 20700 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 2.3 % | 2.3 % | Type I, 5 mm/min; ASTM D638 |
| Tensile Modulus | 11.72 GPa | 1700 ksi | 5 mm/min; ASTM D638 |
| Flexural Strength | 186 MPa | 27000 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 9.75 GPa | 1410 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 1.40 J/cm | 2.62 ft-lb/in | ASTM D256 |

| Mechanical Properties | Metric | English | Comments |
|--------------------------|------------------------|----------------------------|------------------------------------|
| Charpy Impact, Unnotched | 3.21 J/cm ² | 5.75 ft-lb/in ² | ASTM D4812 |
| Charpy Impact Unnotched | 3.30 J/cm ² | 15.7 ft-lb/in ² | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| Charpy Impact, Notched | 1.30 J/cm ² | 6.19 ft-lb/in ² | Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 114 Â°C @Thickness 3.20 mm | 237 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 0.800 mm | V-0 @Thickness 0.0315 in | UL 94 |

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