

SABIC Innovative Plastics NORYL FP3060 PPE+PS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Noryl* FP3060 is an unfilled, injection moldable modified polyphenylene ether resin. Designed for good dimensional stability and high flow , this resin also uses non-chlorinated, non-brominated FR additives to achieve a V1 UL94 rating at 1.5 mm and V0@ 2.5mm with a specific density of 1.1 g/cm³. Noryl FP3060 may be an excellent material candidate for Flat Panel TV enclosure applications requiring good rheological properties, heat resistance, hydrolysis resistance, low density and thin wall flame resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FP3060-PPEPS-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---|---|---|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | ASTM D792 |
| Density | 1.10 g/cc | 0.0397 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.0200 % | 0.0200 % | 23 ^o C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.13 % | 0.13 % | ISO 62 |
| Melt Flow | 42 g/10 min @Load 3.80 kg, Temperature 200 ^o C | 42 g/10 min @Load 8.38 lb, Temperature 392 ^o F | ASTM D1238 |
| Melt Index of Compound | 20 g/10 min @Load 1.20 kg, Temperature 280 ^o C | 20 g/10 min @Load 2.65 lb, Temperature 536 ^o F | MVR [cm ³ /10 min]; ISO 1133 |
| | 41 g/10 min @Load 2.16 kg, Temperature 280 ^o C | 41 g/10 min @Load 4.76 lb, Temperature 536 ^o F | MVR [cm ³ /10 min]; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|------------------------------|
| Tensile Strength at Break | 42.0 MPa | 6090 psi | 50 mm/min; ISO 527 |
| | 55.0 MPa | 7980 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 54.0 MPa | 7830 psi | Type I, 50 mm/min; ASTM D638 |
| | 55.0 MPa | 7980 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 11 % | 11 % | 50 mm/min; ISO 527 |
| | 12 % | 12 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 3.0 % | 3.0 % | 50 mm/min; ISO 527 |
| | 3.0 % | 3.0 % | Type I, 50 mm/min; ASTM D638 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------------------------|----------------------------|------------------------------------|
| Tensile Modulus | 2.40 GPa | 348 ksi | 50 mm/min; ASTM D638 |
| | 2.42 GPa | 351 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 82.0 MPa | 11900 psi | 2 mm/min; ISO 178 |
| | 84.0 MPa | 12200 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 2.40 GPa | 348 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 2.53 GPa | 367 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched | 0.780 J/cm | 1.46 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 |
| | 5.00 kJ/m ² | 2.38 ft-lb/in ² | 80*10*4; ISO 180/1A |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| Charpy Impact, Notched | 0.600 J/cm ² | 2.86 ft-lb/in ² | Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|--|----------------------------------|---------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 83.0 Âµm/m-Â°C | 46.1 Âµin/in-Â°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| | 83.0 Âµm/m-Â°C | 46.1 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| CTE, linear, Transverse to Flow | 80.0 Âµm/m-Â°C | 44.4 Âµin/in-Â°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| | 80.0 Âµm/m-Â°C | 44.4 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 74.0 Â°C | 165 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 80.0 Â°C | 176 Â°F | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | unannealed; ASTM D648 |
| Vicat Softening Point | 91.0 Â°C | 196 Â°F | Rate B/50; ISO 306 |
| | 93.0 Â°C | 199 Â°F | Rate B/120; ISO 306 |

| Thermal Properties | 105 Å°C Metric | 221 Å°F English | Rate B/50' ASTM D1525 Comments |
|--------------------|--------------------|----------------------|-----------------------------------|
| Flammability, UL94 | V-1 | V-1 | UL 94 by SABIC-IP |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | V-0 | V-0 | UL 94 by SABIC-IP |
| | @Thickness 2.50 mm | @Thickness 0.0984 in | |

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