

SABIC Innovative Plastics LNP THERMOCOMP ZX09022 PPE+PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polypropylene (PP)

Material Notes:

Thermocomp ZX09022 Polyphenylene Oxide (PPO*) + Polypropylene (PP) resin is a 30 % Glass Reinforced, injection moldable grade with a HDT /1.8MPa temperature resistance of 153 deg C and a Tensile modulus of 7600 MPa; this grade has been developed for application where dimension stability, temperature and chemical resistance could be required. Thermocomp ZX09022 is an opaque material available in limited colors only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZX09022-PPEPP-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|---|
| Specific Gravity | 1.19 g/cc | 1.19 g/cc | ASTM D792 |
| Density | 1.19 g/cc | 0.0430 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0025 cm/cm @Thickness 3.20 mm | 0.0020 - 0.0025 in/in @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm @Thickness 3.20 mm | 0.0040 - 0.0060 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 6.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C | 6.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F | ASTM D1238 |
| Melt Index of Compound | 6.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C | 6.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F | MVR [cm ³ /10 min]; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|-----------------------------|
| Tensile Strength at Break | 98.0 MPa | 14200 psi | 5 mm/min; ISO 527 |
| | 101 MPa | 14600 psi | Type I, 5 mm/min; ASTM D638 |
| Tensile Strength, Yield | 98.0 MPa | 14200 psi | 5 mm/min; ISO 527 |
| | 101 MPa | 14600 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 3.2 % | 3.2 % | 5 mm/min; ISO 527 |
| | 101 % | 101 % | Type I, 5 mm/min; ASTM D638 |
| Elongation at Yield | 2.9 % | 2.9 % | Type I, 5 mm/min; ASTM D638 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|--|--|------------------------------------|
| Tensile Modulus | 7.60 GPa | 1100 ksi | 5 mm/min; ASTM D638 |
| | 7.70 GPa | 1120 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 141 MPa | 20500 psi | 2 mm/min; ISO 178 |
| | 144 MPa | 20900 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 6.60 GPa | 957 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 7.10 GPa | 1030 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched | 0.950 J/cm | 1.78 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 6.50 J/cm | 12.2 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 10.0 kJ/m ² | 4.76 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 42.0 kJ/m ² | 20.0 ft-lb/in ² | 80*10*4; ISO 180/1U |
| | 42.0 kJ/m ² @Temperature -30.0 °C | 20.0 ft-lb/in ² @Temperature -22.0 °F | 80*10*4; ISO 180/1U |
| Charpy Impact Unnotched | 3.90 J/cm ² | 18.6 ft-lb/in ² | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| | 3.60 J/cm ² @Temperature -30.0 °C | 17.1 ft-lb/in ² @Temperature -22.0 °F | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| Dart Drop, Total Energy | 10.0 J | 7.38 ft-lb | ASTM D3763 |
| | 15.0 J @Temperature 23.0 °C | 11.1 ft-lb @Temperature 73.4 °F | ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|----------------------------------|---------------------------------|-------------|
| CTE, linear, Parallel to Flow | 25.0 Åµm/m-Å°C | 13.9 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 95.0 Å°C | @Temperature -40.0 - 203 Å°F | |
| | 25.0 Åµm/m-Å°C | 13.9 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature -30.0 - 80.0 Å°C | @Temperature -22.0 - 176 Å°F | |

| Thermal Properties CTE, linear, transverse to Flow | 120 Åµm/m-Å°C Metric | 66.7 Åµin/in-Å°F English | Comments ISO 11358-2 |
|---|----------------------------------|---------------------------------|-----------------------------------|
| | @Temperature -30.0 - 80.0 Å°C | @Temperature -22.0 - 176 Å°F | |
| | 130 Åµm/m-Å°C | 72.2 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 95.0 Å°C | @Temperature -40.0 - 203 Å°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 168 Å°C | 334 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 166 Å°C | 331 Å°F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Deflection Temperature at 1.8 MPa (264 psi) | 153 Å°C | 307 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/ Af |
| | 156 Å°C | 313 Å°F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Vicat Softening Point | 150 Å°C | 302 Å°F | Rate B/120; ISO 306 |
| Flammability, UL94 | HB | HB | UL 94 |
| | @Thickness 1.00 mm | @Thickness 0.0394 in | |
| Glow Wire Test | 650 Å°C | 1200 Å°F | IEC 60695-2-12 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Descriptive Properties | Value | Comments |
|-------------------------------------|--------|----------------|
| Ball Pressure Test, 125Å°C +/- 2Å°C | Passes | IEC 60695-10-2 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China