




SABIC LNP™ THERMOCOMP™ ZX09022 PPE+PP (Europe-Africa-Middle East) (Unverified Data)**



Categories: [Polymer](#); [Thermoplastic](#); [Polyphenylene Ether/PPQ](#); [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.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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 °C	6.0 g/10 min @Load 11.0 lb, Temperature 536 °F	ASTM D1238
Melt Index of Compound	6.0 g/10 min @Load 5.00 kg, Temperature 280 °C	6.0 g/10 min @Load 11.0 lb, Temperature 536 °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
	3.2 %	3.2 %	5 mm/min; ISO 527
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
 @Temperature -30.0 °C	42.0 kJ/m ²	20.0 ft-lb/in ²	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
 @Temperature -30.0 °C	3.60 J/cm ²	17.1 ft-lb/in ²	Edgew 80*10 ⁴ sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy 	10.0 J	7.38 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 J	11.1 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow 	25.0 µm/m-°C @Temperature -40.0 - 95.0 °C	13.9 µin/in-°F @Temperature -40.0 - 203 °F	ASTM E 831
	25.0 µm/m-°C @Temperature -30.0 - 80.0 °C	13.9 µin/in-°F @Temperature -22.0 - 176 °F	ISO 11359-2
CTE, linear, Transverse to Flow 	120 µm/m-°C @Temperature -30.0 - 80.0 °C	66.7 µin/in-°F @Temperature -22.0 - 176 °F	ISO 11359-2
	130 µm/m-°C @Temperature -40.0 - 95.0 °C	72.2 µin/in-°F @Temperature -40.0 - 203 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	168 °C @Thickness 3.20 mm	334 °F @Thickness 0.126 in	Flatw 80*10 ⁴ sp=64mm; ISO 75/Bf unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	153 °C @Thickness 3.20 mm	307 °F @Thickness 0.126 in	Flatw 80*10 ⁴ sp=64mm; ISO 75/AF unannealed; ASTM D648
	156 °C @Thickness 3.20 mm	313 °F @Thickness 0.126 in	
Vicat Softening Point	150 °C	302 °F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94

Glow Wire Flammability Index	@Thickness 1.00 mm	@Thickness 0.0394 in	IEC 60695-2-12
	650 °C	1200 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties

Ball Pressure Test, 125°C +/- 2°C	Passes	IEC 60695-10-2
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