

SABIC Innovative Plastics LNP Thermocomp KB004 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Glass Bead Filled

Material Notes:

LNP THERMOCOMP® KB004 is a compound based on Acetal Copolymer resin containing Glass Bead. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-KB004-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D 792
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D 792
	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.19 %	0.19 %	23°C / 50% RH; ISO 62
	0.19 %	0.19 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	21 %	21 %	Type I, 5 mm/min; ASTM D 638
	22.5 %	22.5 %	5 mm/min; ISO 527
Tensile Modulus	4.16 GPa	603 ksi	1 mm/min; ISO 527
	4.21 GPa	611 ksi	50 mm/min; ASTM D 638
Flexural Strength	73.0 MPa	10600 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.46 GPa	502 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	3.66 GPa	531 ksi	2 mm/min; ISO 178
	0.530 J/cm	0.993 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched	5.78 J/cm @Temperature 23.0 Â°C	10.8 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/mÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	51.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	88.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	207 Â°C	405 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	204 Â°C @Thickness 3.20 mm	399 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	201 Â°C	394 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	196 Â°C @Thickness 3.20 mm	385 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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