

SABIC Innovative Plastics LNP Thermocomp KB005 Acetal Copolymer

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

Material Notes:

LNP THERMOCOMP* KB005 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-KB005-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.19 %	0.19 %	23Å°C / 50% RH; ISO 62
	0.10 %	0.10 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.023 cm/cm	0.023 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0233 cm/cm	0.0233 in/in	ISO 294
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.022 cm/cm	0.022 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0224 cm/cm	0.0224 in/in	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.0 MPa	3340 psi	ISO 527
	37.0 MPa	5370 psi	ASTM D 638
Elongation at Break	12 %	12 %	ISO 527
	17 %	17 %	ASTM D 638
Tensile Modulus	3.70 GPa	537 ksi	1 mm/min; ISO 527
	3.72 GPa	540 ksi	50 mm/min; ASTM D 638
Flexural Strength	68.0 MPa	9860 psi	ASTM D 790
	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	2.89 GPa	419 ksi	ASTM D 790

Mechanical Properties	Metric 3.30 GPa	English 475 ksi	Comments ISO 178
Izod Impact, Notched	0.900 J/cm @Temperature 23.0 Â°C	1.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.93 J/cm @Temperature 23.0 Â°C	5.49 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/mÂ² @Temperature 23.0 Â°C	12.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	112 Â°C @Thickness 3.20 mm	234 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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