

SABIC Innovative Plastics LNP THERMOCOMP KB003RXZ Acetal Copolymer

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

Material Notes:

LNP THERMOCOMP* KB003RXZ is a compound based on Acetal Copolymer resin containing 15% Glass Bead. Added features of this material include: Easy Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KB003RXZ-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
	1.512 g/cc	0.05462 lb/in ³	ASTM D792
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0237 cm/cm	0.0237 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.024 cm/cm	0.024 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0213 cm/cm	0.0213 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ASTM D638
	46.0 MPa	6670 psi	ISO 527
Tensile Strength, Yield	46.0 MPa	6670 psi	ASTM D638
	46.0 MPa	6670 psi	ISO 527
Elongation at Break	16.3 %	16.3 %	ISO 527
	24.7 %	24.7 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ISO 527
	8.5 %	8.5 %	ASTM D638

Tensile Modulus Mechanical Properties	2.75 GPa Metric	399 ksi English	50 mm/min; ASTM D638 Comments
	3.30 GPa	479 ksi	1 mm/min; ISO 527
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
	84.0 MPa	12200 psi	ISO 178
Flexural Modulus	2.96 GPa	429 ksi	ASTM D790
	3.40 GPa	493 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.17 J/cm	9.69 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	159 Â°C @Thickness 3.20 mm	318 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	107 Â°C	225 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	102 Â°C @Thickness 3.20 mm	216 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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