



LNP* Thermocomp* Compound KB003RXZ

Americas: COMMERCIAL

Also known as: KB-1003 ER Product Reorder Name: KB003RXZ

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

Property

TYPICAL PROPERTIES (1)				
MECHANICAL	Value	Unit	Standard	
Tensile Stress, yield	46	MPa	ASTM D 638	
Tensile Stress, break	45	MPa	ASTM D 638	
Tensile Strain, yield	8.5	%	ASTM D 638	
Tensile Strain, break	24.7	%	ASTM D 638	
Tensile Modulus, 50 mm/min	2750	MPa	ASTM D 638	
Flexural Stress	82	MPa	ASTM D 790	
Flexural Modulus	2960	MPa	ASTM D 790	
Tensile Stress, yield	46	MPa	ISO 527	
Tensile Stress, break	46	MPa	ISO 527	
Tensile Strain, yield	8	%	ISO 527	
Tensile Strain, break	16.3	%	ISO 527	
Tensile Modulus, 1 mm/min	3300	MPa	ISO 527	
Flexural Stress	84	MPa	ISO 178	
Flexural Modulus	3400	MPa	ISO 178	
IMPACT	Value	Unit	Standard	
Izod Impact, unnotched, 23°C	517	J/m	ASTM D 4812	
zod Impact, notched, 23°C	37	J/m	ASTM D 256	
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763	
Izod Impact, unnotched 80*10*4 +23°C	34	kJ/m²	ISO 180/1U	
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A	
THERMAL	Value	Unit	Standard	
HDT, 0.45 MPa, 3.2 mm, unannealed	159	°C	ASTM D 648	
HDT, 1.82 MPa, 3.2mm, unannealed	102	°C	ASTM D 648	
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	107	°C	ISO 75/Af	
PHYSICAL	Value	Unit	Standard	
Density	1.512	g/cm³	ASTM D 792	
Moisture Absorption, 50% RH, 24 hrs	0.16	%	ASTM D 570	
Mold Shrinkage, flow, 24 hrs	2.4	%	ASTM D 955	
Mold Shrinkage, xflow, 24 hrs	2.1	%	ASTM D 955	
Mold Shrinkage, flow, 24 hrs	2.37	%	ISO 294	
Mold Shrinkage, xflow, 24 hrs	2.13	%	ISO 294	
Density	1.5	g/cm³	ISO 1183	
Moisture Absorption (23°C / 50% RH)	0.3	%	ISO 62	

Source GMD, last updated:10/02/2004

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	200 - 215	°C
Front - Zone 3 Temperature	210 - 220	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:10/02/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

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- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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