LNP™ THERMOCOMP™ COMPOUND KX97390

PDX-K-97390

DESCRIPTION

LNP THERMOCOMP* KX97390 is a compound based on Acetal Copolymer resin containing Glass Fiber. Added features of this material include: Chemically Coupled.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	84	MPa	ASTM D 638
Tensile Strain, break	3.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	4750	MPa	ASTM D 638
Flexural Stress	124	MPa	ASTM D 790
Flexural Modulus	4610	MPa	ASTM D 790
Tensile Stress, break	86	MPa	ISO 527
Tensile Strain, break	3.4	%	ISO 527
Tensile Modulus, 1 mm/min	5400	MPa	ISO 527
Flexural Stress	137	MPa	ISO 178
Flexural Modulus	5400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	427	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	164	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	161	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	161	°C	ISO 75/Af
PHYSICAL			
Density	1.45	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.16	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.24	%	ISO 294
Density	1.45	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.35	%	ISO 62
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	200 – 215	°C	
Front - Zone 3 Temperature	210 – 220	°C	

© 2019 Copyright by SABIC. All rights reserved

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

© 2019 Copyright by SABIC. All rights reserved