LNP™ THERMOCOMP™ COMPOUND KF006

KFX-1006
REGION EUROPE

DESCRIPTION

LNP THERMOCOMP KF006 is a compound based on Acetal Copolymer resin containing 30% Glass Fiber. Added features of this material include: Chemically Coupled.

TYPICAL PROPERTY VALUES

Revision 20190410

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	125	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.9	%	ISO 527
Tensile Modulus, 1 mm/min	9200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	163	MPa	ISO 178
Flexural Modulus, 2 mm/min	7400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	3.2E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	9.6E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	164	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	161	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	0.5 – 0.8	%	SABIC method
Mold Shrinkage, xflow	0.8 – 1.1	%	SABIC method
Density	1.62	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.4	%	ISO 62-1
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101284424	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
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	

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(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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