LNP™ THERMOCOMP™ COMPOUND UF0069S

UF-1006 FR HS LEX

DESCRIPTION

LNP THERMOCOMP* UF0069S is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant, Heat Stabilized.

TYPICAL PROPERTY VALUES

Revision 20191220

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	181	MPa	ASTM D 638
Tensile Strain, break	1.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	13780	MPa	ASTM D 638
Flexural Stress	258	MPa	ASTM D 790
Flexural Modulus	12060	MPa	ASTM D 790
Tensile Stress, break	166	MPa	ISO 527
Tensile Strain, break	1.7	%	ISO 527
Tensile Modulus, 1 mm/min	12070	MPa	ISO 527
Flexural Stress	264	MPa	ISO 178
Flexural Modulus	12320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	550	J/m	ASTM D 4812
Izod Impact, notched, 23°C	90	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	44	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
PHYSICAL			
Density	1.655	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.22	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.59	%	ISO 294
Density	1.65	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.26	%	ISO 62
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-101377968	-	-
UL Recognized, 94-5VA Flame Class Rating	≥1.5	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15	%	
Melt Temperature	300 – 310	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	280 – 295	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(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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