LNP™ LUBRICOMP™ COMPOUND PFL26

PFL26

DESCRIPTION

LNP LUBRICOMP PFL26 is a compound based on Nylon 6 resin containing 30% Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Modulus, 1 mm/min	10200	MPa	ISO 527
Tensile Stress, break, 5 mm/min	250	MPa	ISO 527
Tensile Strain, break, 5 mm/min	4.2	%	ISO 527
Flexural Modulus, 2 mm/min	8600	MPa	ISO 178
Flexural Stress, break, 2 mm/min	165	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.9	%	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	14	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	98	kJ/m²	ISO 180/1U
THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	219	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	206	°C	ISO 75/Af
CTE, 23°C to 60°C, flow	2.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	7.5E-05	1/°C	ISO 11359-2
Relative Temp Index, Elec (1)	65	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	65	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	65	°C	UL 746B
PHYSICAL			
Wear Factor Washer	10	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.57	-	ASTM D 3702 Modified: Instr.
Static COF	0.99	-	ASTM D 3702 Modified: Instr.
Density	1.44	g/cm³	ISO 1183
Mold Shrinkage, flow	0.1 – 0.3	%	SABIC method
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	1	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥2.5	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥1.5	mm	UL 746A
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-103600532	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
UV-light, water exposure/immersion	F1	-	UL 746C
INJECTION MOLDING			
Drying Temperature	80	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°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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