LNP™ LUBRICOMP™ COMPOUND UX05051

UFL-4026 A FR HS HW

DESCRIPTION

Internally lubricated Polyphthalamide compound, containing Glass Fiber and PTFE. Added features include Heat Stabilized, Flame Retardant and Hot Water Moldable

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	138	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1	%	ISO 527
Tensile Modulus, 1 mm/min	12100	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	188	MPa	ISO 178
Flexural Modulus, 2 mm/min	10700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	2.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.2E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	273	°C	ISO 75/Af
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			
Density	1.76	g/cm³	ISO 1183
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	1	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥0.8	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.8	mm	UL 746A
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101949148	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.4	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	305 – 315	°C	
Front - Zone 3 Temperature	305 – 320	°C	
Middle - Zone 2 Temperature	305 – 320	°C	
Rear - Zone 1 Temperature	305 – 320	°C	
Mold Temperature	95 – 120	°C	
Back Pressure	0.3 – 0.7	MPa	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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