LNP™ LUBRILOY™ COMPOUND ZX06315

REGION ASIA

DESCRIPTION

LNP LUBRILOY ZX06315 is a compound based on PPE+PS Blend resin containing Flame Retardant, Proprietary Lubricant. Added features of this material include: Internally Lubricated, Non-Brominated & Non-Chlorinated Flame Retardant, Flame Retardant, high HDT.

TYPICAL PROPERTY VALUES

Revision 20190726

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	63	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	50	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	5	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	11.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	2270	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	93	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	91	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2190	MPa	ASTM D 790
Hardness, Rockwell R	115	-	ASTM D 785
IMPACT			
Izod Impact, notched, 23°C	230	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	124	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	129	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.2E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.6E-04	1/°C	ASTM E 831
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	1.07	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.94 – 0.96	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.91 – 0.93	%	ASTM D 955
Wear Factor Washer	65	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.21	-	ASTM D 3702 Modified: Manual
Melt Volume Rate, MVR at 280°C/10.0 kg	38	cm³/10 min	ISO 1133
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-101284063	-	-
UL Yellow Card Link 2	E207780-102991929	-	-
UL Recognized, 94V-1 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	3 – 4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Temperature	270 – 295	°C	
Nozzle Temperature	265 – 275	°C	
Front - Zone 3 Temperature	265 – 275	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	255 – 265	°C	
Mold Temperature	60 – 95	°C	
Back Pressure	0.2 – 0.4	MPa	
Screw Speed	40 – 100	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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