LNP™ LUBRILOY™ COMPOUND D20009

D-FR
REGION ASIA

DESCRIPTION

LNP LUBRILOY* D20009 is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Flame Retardant, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191031

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	61	MPa	ASTM D 638
Tensile Strain, break	84	%	ASTM D 638
Flexural Stress	87	MPa	ASTM D 790
Flexural Modulus	2280	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	699	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed (1)	121	°C	ASTM D 648
Relative Temp Index, Elec	80	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	80	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	80	°C	UL 746B
PHYSICAL			
Density	1.23	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Wear Factor Washer	56	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.25	-	ASTM D 3702 Modified: Manual
Static COF	0.13	-	ASTM D 3702 Modified: Manual
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101283840	-	-
UL Recognized, 94V-0 Flame Class Rating	≥3	mm	UL 94
UL Recognized, 94V-2 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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