LNP™ LUBRICOMP™ COMPOUND DP0039EF

DP0039EF

DESCRIPTION

LNP LUBRICOMP DP0039EF is a compound based on Polycarbonate resin containing Silicone, PTFE. Added features of this material include: Internally Lubricated.

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	50	MPa	ASTM D 638
Tensile Stress, break	40	MPa	ASTM D 638
Tensile Strain, yield	5.5	%	ASTM D 638
Tensile Strain, break	14.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	2120	MPa	ASTM D 638
Flexural Stress	80	MPa	ASTM D 790
Flexural Modulus	2140	MPa	ASTM D 790
Tensile Stress, yield	50	MPa	ISO 527
Tensile Stress, break	39	MPa	ISO 527
Tensile Strain, yield	5.5	%	ISO 527
Tensile Strain, break	17.5	%	ISO 527
Tensile Modulus, 1 mm/min	2090	MPa	ISO 527
Flexural Stress	82	MPa	ISO 178
Flexural Modulus	2170	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2000	J/m	ASTM D 4812
Izod Impact, notched, 23°C	302	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	23	J	ASTM D 3763
Multiaxial Impact	61	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	129	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	19	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2 mm	126	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Af
Relative Temp Index, Elec (1)	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	1.31	g/cm³	ASTM D 792
Mold Shrinkage, flow, 1.5-3.2 mm	0.68	%	SABIC method
Mold Shrinkage, xflow, 1.5-3.2 mm	0.67	%	SABIC method
Melt Flow Rate, 300°C/2.16 kgf	18.1	g/10 min	ASTM D 1238
Wear Factor Washer	422	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.17	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Water Absorption, (23°C/sat)	0.05	%	ISO 62
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-101343864	-	-
UL Recognized, 94V-0 Flame Class Rating	1.7	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	300 – 315	°C	
Front - Zone 3 Temperature	310 – 320	°C	
Middle - Zone 2 Temperature	305 – 315	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 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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