LNP™ LUBRICOMP™ COMPOUND EX00548C

PDX-E-00548 CCS

DESCRIPTION

LNP* LUBRICOMP* EX00548C is a compound based on Polyetherimide resin containing Proprietary Fillers. Added features of this material include: Clean Compounding System, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20200110

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	85	MPa	ASTM D 638
Tensile Stress, break	83	MPa	ASTM D 638
Tensile Strain, yield	6.1	%	ASTM D 638
Tensile Strain, break	8.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	3030	MPa	ASTM D 638
Flexural Stress	148	MPa	ASTM D 790
Flexural Modulus	3440	MPa	ASTM D 790
Tensile Stress, yield	86	MPa	ISO 527
Tensile Stress, break	85	MPa	ISO 527
Tensile Strain, yield	6	%	ISO 527
Tensile Strain, break	7.6	%	ISO 527
Tensile Modulus, 1 mm/min	3200	MPa	ISO 527
Flexural Stress	143	MPa	ISO 178
Flexural Modulus	3390	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	469	J/m	ASTM D 4812
Izod Impact, notched, 23°C	26	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	185	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	184	°C	ISO 75/Af
Relative Temp Index, Elec [1]	105	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	105	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	105	°C	UL 746B
PHYSICAL			
Density	1.31	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.22	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.66	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.7	%	ISO 294
Density	1.31	g/cm³	ISO 1183

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101345280	-	-
UL Yellow Card Link 2	E207780-101345235	-	-
UL Recognized, 94V-0 Flame Class Rating	0.35	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4 – 6	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	360 – 365	°C	
Front - Zone 3 Temperature	365 – 375	°C	
Middle - Zone 2 Temperature	355 – 365	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	120 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 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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