LNP™ LUBRICOMP™ COMPOUND OX97635

PDX-O-97635

DESCRIPTION

LNP LUBRICOMP* OX97635 is a compound based on Polyphenylene Sulfide resin containing Proprietary Filler(s). Added features of this material include: Electrically Conductive, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	121	MPa	ASTM D 638
Tensile Strain, break	0.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	22950	MPa	ASTM D 638
Flexural Stress	253	MPa	ASTM D 790
Flexural Modulus	24540	MPa	ASTM D 790
Tensile Stress, break	165	MPa	ISO 527
Tensile Strain, break	0.8	%	ISO 527
Tensile Modulus, 1 mm/min	26200	MPa	ISO 527
Flexural Stress	259	MPa	ISO 178
Flexural Modulus	25940	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	395	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	24	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	269	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	265	°C	ISO 75/Af
PHYSICAL			
Density	1.55	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.06	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.44	%	ISO 294
Wear Factor Washer	47	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.36	-	ASTM D 3702 Modified: Manual
Static COF	0.31	-	ASTM D 3702 Modified: Manual
Density	1.55	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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