

LNP™ LUBRICOMP™ OX88533 compound

Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OX88533 is a compound based on Polyphenylene Sulfide resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-O-88533

Product reorder name: OX88533

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.53	%	ISO 294-4
Flow : 24 hr	0.090	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13100	MPa	ASTM D638
--	12200	MPa	ISO 527-2/1
Tensile Strength			
Break	145	MPa	ASTM D638
Break	146	MPa	ISO 527-2
Tensile Elongation (Break)	1.8	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	11000	MPa	ASTM D790
--	11400	MPa	ISO 178
Flexural Strength			
--	200	MPa	ASTM D790
--	209	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.43		
vs. Itself - Static	0.34		
Wear Factor - Washer	59.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	85	J/m	ASTM D256
23°C ²	9.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	530	J/m	ASTM D4812
23°C ³	39	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.20	J	ASTM D3763
--	3.07	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	264	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	260	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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