

LNP™ LUBRICOMP™ EX07305 compound

Polyether Imide

SABIC Innovative Plastics Asia Pacific

Message:

Polyetherimide reinforced with Glass fiber and PTFE for use in Burn-in Test Sockets (BiTS) Application

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	PTFE Lubricant		
Features	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			Internal Method
Flow	0.40	%	
Across Flow	0.52	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8630	MPa	ASTM D638
--	8550	MPa	ISO 527-2/1
Tensile Strength			
Break ²	157	MPa	ASTM D638
Break	156	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	3.0	%	ASTM D638
Break	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	6420	MPa	ASTM D790
-- ⁵	7220	MPa	ISO 178
Flexural Strength ⁶			
Yield, 50.0 mm Span	202	MPa	
Break, 50.0 mm Span	201	MPa	
Coefficient of Friction (vs. Itself - Dynamic)	0.52		ASTM D3702 Modified
Wear Factor - Washer	15.6	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	67	J/m	ASTM D256
23°C ⁷	7.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	330	J/m	ASTM D4812

23°C ⁸	26	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	204	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	207	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	1.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+13	ohms	ASTM D257
Volume Resistivity	7.6E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm, in Oil)	31	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.30		ASTM D150
Dissipation Factor (100 kHz)	3.1E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	332 to 399	°C	
Middle Temperature	338 to 399	°C	
Front Temperature	343 to 399	°C	
Nozzle Temperature	343 to 399	°C	
Processing (Melt) Temp	349 to 399	°C	
Mold Temperature	135 to 163	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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