



LNP™ LUBRICOMP™ Compound EX07305

Asia Pacific: COMMERCIAL

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	0	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1600	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Modulus, 50 mm/min	87900	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2050	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2040	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	65400	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	0	MPa	ISO 527
Tensile Stress, break, 5 mm/min	156	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0	%	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	8540	MPa	ISO 527
Flexural Modulus, 2 mm/min	7210	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	33	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	204	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.41E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.07E-05	1/°C	ASTM E 831



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	206	°C	ISO 75/Af
PHYSICAL			
Density	1.506	g/cm ³	ASTM D 792
Mold Shrinkage, flow (5)	0.4	%	SABIC Method
Mold Shrinkage, xflow (5)	0.52	%	SABIC Method
Wear Factor Washer	15	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.52	-	ASTM D 3702 Modified: Manual
Density	1.51	g/cm ³	ISO 1183
ELECTRICAL			
Volume Resistivity	7.6E+16	Ohm-cm	ASTM D 257
Surface Resistivity	2.E+13	Ohm	ASTM D 257
Dielectric Strength, in oil, 1.6 mm	31.4	kV/mm	ASTM D 149
Relative Permittivity, 100 kHz	3.3	-	ASTM D 150
Dissipation Factor, 100 kHz	0.0031	-	ASTM D 150



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	350 - 400	°C
Nozzle Temperature	345 - 400	°C
Front - Zone 3 Temperature	345 - 400	°C
Middle - Zone 2 Temperature	340 - 400	°C
Rear - Zone 1 Temperature	330 - 400	°C
Mold Temperature	135 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm