



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

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
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 ⁻⁴ in ³ -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

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