LNP™ LUBRICOMP™ COMPOUND JD4901

DESCRIPTION

LNP LUBRICOMP JD4901 compound is based on Polyetherimide (PEI) resin containing 20% glass fiber, 10% PTFE. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, High temperature resistance
Fillers	Glass Fiber, PTFE
Polymer Types	Polyetherimide (PEI)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20260623

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yield	125	MPa	SABIC - Japan Method
Tensile Strain, break	3	%	SABIC - Japan Method
Flexural Stress	190	MPa	ASTM D790
Flexural Modulus	6470	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched, 23°C	78	J/m	ASTM D256
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	213	°C	ASTM D648
Relative Temp Index, Elec [2]	105	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	105	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	105	°C	UL 746B
PHYSICAL [1]			
Specific Gravity	1.48	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.18	%	ASTM D570
Water Absorption, (23°C/24hrs)	0.19	%	ISO 62-1
Water Absorption, (23°C/saturated)	1.01	%	ISO 62-1
Moisture Absorption, (23°C/50% RH/24hrs)	0.08	%	ISO 62-4
Mold Shrinkage, flow, 3.2 mm [3]	0.2 – 0.3	%	SABIC method
ELECTRICAL [1]			
Surface Resistivity	1.6E+17	Ω/sq	ASTM D257
Volume Resistivity	5.8E+16	Ω.cm	ASTM D257

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Dielectric Strength, in oil, 1.6 mm	23.6	kV/mm	ASTM D149
Dielectric Strength, in oil, 3.2 mm	16.7	kV/mm	ASTM D149
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E45587-236987	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94
INJECTION MOLDING (4)			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	380 – 410	°C	
Nozzle Temperature	380 – 405	°C	
Front - Zone 3 Temperature	380 – 410	°C	
Middle - Zone 2 Temperature	370 – 400	°C	
Rear - Zone 1 Temperature	360 – 390	°C	
Mold Temperature	140 – 170	°C	
Back pressure (Plastic Pressure)	5 – 10	MPa	
Screw speed (Circumferential speed)	0.1 – 0.2	m/s	
Shot to Cylinder Size	40 – 70	%	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) 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.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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