

LG Chemical LUSEP GP2400 PPS+GF40%, General Purpose

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Feature: Injection Molding, PPS+GF40%, General Purpose
Application: Pump Units, Motor Units, etc.
CAS No. 25212-74-2 and 65997-17-3
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUSEP-GP2400-PPSGF40-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm @Thickness 3.20 mm	0.0010 - 0.0020 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	152 MPa @Thickness 3.20 mm	22000 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	1.0 - 2.0 % @Thickness 3.20 mm	1.0 - 2.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	226 MPa @Thickness 3.20 mm	32700 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	11.8 GPa @Thickness 3.20 mm	1710 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.686 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.29 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	>= 250 Â°C @Thickness 6.40 mm	>= 482 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	>= 250 Â°C @Thickness 6.40 mm	>= 482 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	130 Â°C @Thickness >=0.320	266 Â°F @Thickness >=0.0126	

Thermal Properties	^{mm} Metric	ⁱⁿ English	Comments
	130 Â°C	266 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	130 Â°C	266 Â°F	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	
	@Thickness >=0.320 mm	@Thickness >=0.0126 in	
	130 Â°C	266 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	130 Â°C	266 Â°F	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	130 Â°C	266 Â°F	
	@Thickness >=0.320 mm	@Thickness >=0.0126 in	
	130 Â°C	266 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	130 Â°C	266 Â°F	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.320 mm	@Thickness >=0.0126 in	
	V-0	V-0	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	

Thermal Properties	Metric	English	Comments
	V-0	V-0	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VA	5VA	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.0 kV/mm	406 kV/in	
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	60 - 120 sec	60 - 120 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.70 mm	@Thickness 0.0669 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	300 Â°C	572 Â°F	Injection Molding
Middle Barrel Temperature	310 Â°C	590 Â°F	Injection Molding
Front Barrel Temperature	320 Â°C	608 Â°F	Injection Molding
Nozzle Temperature	330 Â°C	626 Â°F	Injection Molding
Melt Temperature	300 - 330 Â°C	572 - 626 Â°F	Injection Molding
Mold Temperature	120 - 150 Â°C	248 - 302 Â°F	Injection Molding

Processing Properties	Metric122-120 °C	English212-248 °F	CommentsInjection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Screw Speed	>= 100 rpm	>= 100 rpm	Injection Molding

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