

LG Chemical SG175G ABS, Super Surface Gloss, High Flow

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

Feature: Injection Molding, Super Surface Gloss, High Flow
 Application: Electric & Electronic Products
 CAS No. 9003-56-9
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-SG175G-ABS-Super-Surface-Gloss-High-Flow.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	37 g/10 min @Load 10.0 kg, Temperature 220 °C	37 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	46.1 MPa @Thickness 3.20 mm	6680 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	30 % @Thickness 3.20 mm	30 % @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Yield	>= 5.0 % @Thickness 3.20 mm	>= 5.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	73.5 MPa @Thickness 3.20 mm	10700 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.55 GPa @Thickness 3.20 mm	370 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.26 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	4.22 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256
	2.35 J/cm	4.41 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 6.40 mm, Temperature 23.0 °C	English @Thickness 0.252 in, Temperature 73.4 °F	Comments
-----------------------	--	--	----------

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C @Thickness 6.40 mm	185 °F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	92.0 °C @Load 5.00 kg	198 °F @Load 11.0 lb	50°C/h; ASTM D1525
UL RTI, Electrical	60.0 °C @Thickness >=1.50 mm	140 °F @Thickness >=0.0591 in	UL 746B
	60.0 °C @Thickness >=3.00 mm	140 °F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 °C @Thickness >=1.50 mm	140 °F @Thickness >=0.0591 in	UL 746B
	60.0 °C @Thickness >=3.00 mm	140 °F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 °C @Thickness >=1.50 mm	140 °F @Thickness >=0.0591 in	UL 746B
	60.0 °C @Thickness >=3.00 mm	140 °F @Thickness >=0.118 in	
Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Strength	28.0 kV/mm	711 kV/in	
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	Solution A; IEC 60112

Electrical Properties Hot Wire Ignition, HWI	Metric 7.0 - 15 sec	English 7.0 - 15 sec	Comments
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 °C	356 - 392 °F	Injection Molding
Middle Barrel Temperature	190 - 210 °C	374 - 410 °F	Injection Molding
Front Barrel Temperature	200 - 220 °C	392 - 428 °F	Injection Molding
Nozzle Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Melt Temperature	210 - 240 °C	410 - 464 °F	Injection Molding
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	Injection Molding
Drying Temperature	80.0 °C	176 °F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China