LG Chemical HF380XC ABS, High Flow, High Surface Gloss

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

Material Notes:

Feature: Injection Molding, High Flow, High Surface GlossApplication: High melt flow index is suitable for injection molding of large and complicated part. High thermal stabilities enables to express distinguished appearances such and color and gloss)CAS No. 9003-56-9Information provided by LG Chemical

Order this product through the following link:
http://www.lookpolymers.com/polymer_LG-Chemical-HF380XC-ABS-High-Flow-High-Surface-Gloss.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 - 1.07 g/cc	1.04 - 1.07 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	40 g/10 min @Load 10.0 kg, Temperature 220 Â°C	40 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength, Yield	43.1 MPa @Thickness 3.20 mm	6260 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	>= 7.0 % @Thickness 3.20 mm	>= 7.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Yield	>= 3.0 % @Thickness 3.20 mm	>= 3.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	68.6 MPa @Thickness 3.20 mm	9960 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.45 GPa @Thickness 3.20 mm	356 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.96 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	3.67 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Â°C @Thickness 6.40 mm	189 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	UL 746B
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	UL 746B
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	UL 746B
	60.0 Â°C @Thickness >=3.00 mm	140 Â°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+13 ohm-cm	1.00e+13 ohm-cm	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	
Hot Wire Ignition, HWI	15 - 30 sec @Thickness >=1.50 mm	15 - 30 sec @Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	

Electrical Properties	Metric	English	Comments
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	
	>= 120 arcs @Thickness 3.00 mm	>= 120 arcs @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 Â°C	356 - 392 Â°F	Injection Molding
Middle Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Nozzle Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	Injection Molding
Mold Temperature	40.0 - 70.0 Â°C	104 - 158 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°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

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