

LG Chemical MI-750 MIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Medium impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-MI-750-MIPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	7.0 g/10 min	7.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength, Yield	38.3 MPa	5550 psi	50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ASTM D638
Flexural Yield Strength	68.7 MPa	9960 psi	15 mm/min; ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Unannealed; ASTM D648
	@Thickness 12.7 mm	@Thickness 0.500 in	
Vicat Softening Point	99.0 °C	210 °F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
Flame Spread	28.0 mm/min	1.10 in/min	FH3

Thermal Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	UL Rating PLC 5 (120-180 sec)
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL Rating PLC 1 (400-600 volts)
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL Rating PLC 2 (25.4-80 mm/min)

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