

LG Chemical MI-770 MIPS

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-MI-770-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	6.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	6.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	36.3 MPa	5260 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Yield Strength	62.9 MPa	9120 psi	15 mm/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.590 J/cm @Thickness 6.35 mm	1.11 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.780 J/cm @Thickness 3.17 mm	1.46 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C @Thickness 12.7 mm	176 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	101 Â°C	214 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
Flame Spread	28.0 mm/min @Thickness 3.17 mm	1.10 in/min @Thickness 0.125 in	FH3

Electrical Properties	Metric	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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