

LG Chemical TR300 MABS, Flame Retardant, Transparency

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

Material Notes:

Feature: Injection Molding, Flame Retardant, Transparency
Application: Electric/Electronic Applications (TV, Monitor Housing) IT/OA device
CAS No. 9010-94-0 and 25713-60-4
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-TR300-MABS-Flame-Retardant-Transparency.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.50 - 1.0 % @Temperature 23.0 Â°C, Time 86400 sec	0.50 - 1.0 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
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	35 g/10 min @Load 10.0 kg, Temperature 220 Â°C	35 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	42.2 MPa @Thickness 3.20 mm	6120 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
Tensile Modulus	2.06 GPa @Thickness 3.20 mm	299 ksi @Thickness 0.126 in	1 mm/min; ASTM D638
Flexural Yield Strength	68.6 MPa @Thickness 6.40 mm	9960 psi @Thickness 0.252 in	15 mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 6.40 mm	313 ksi @Thickness 0.252 in	15 mm/min; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.981 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.84 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	1.08 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.02 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
Izod Impact, Unnotched	0.392 J/cm @Thickness 6.40 mm, Temperature -30.0 Â°C	0.735 ft-lb/in @Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	0.392 J/cm @Thickness 3.20 mm, Temperature -30.0 Â°C	0.735 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 Â°C @Thickness 6.40 mm	194 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C @Thickness 6.40 mm	180 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	90.0 Â°C @Load 5.00 kg	194 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525
UL RTI, Electrical	50.0 Â°C @Thickness >=1.50 mm	122 Â°F @Thickness >=0.0591 in	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C @Thickness >=1.50 mm	122 Â°F @Thickness >=0.0591 in	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C @Thickness >=1.50 mm	122 Â°F @Thickness >=0.0591 in	UL 746B
Flammability, UL94	V-2 @Thickness >=1.50 mm	V-2 @Thickness >=0.0591 in	

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