

Amity Thermosets ATS 1613-R Phenolic Molding Nylon and glass Filler, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

Material Notes:

Characteristics: High dielectric & mechanical strength Weather resistant Good electric insulation Low water absorption Good mechanical tension bearing capacity Color-black Medium flow Applications: Railway signaling equipment parts Kitchen equipment (e.g. mixers, dishwashers) parts Components which ought to have good electric insulation in spite of exposure to humid atmosphere, etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATS-1613-R-Phenolic-Molding-Nylon-and-glass-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.40 - 1.46 g/cc	0.0506 - 0.0527 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.200 - 0.300 g/cc	0.00723 - 0.0108 lb/in ³	IS 867-1963
Water Absorption	0.12 - 0.22 %	0.12 - 0.22 %	IS 13411-1993
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 - 55.0 MPa	6670 - 7980 psi	5 mm/min.; IS 867-1963
Shear Strength	70.0 - 80.0 MPa	10200 - 11600 psi	2mm/min.; IS 867-1963
Izod Impact, Notched	0.250 - 0.300 J/cm	0.468 - 0.562 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.16e+11 - 3.16e+12 ohm-cm	3.16e+11 - 3.16e+12 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+11 - 1.00e+12 ohm	1.00e+11 - 1.00e+12 ohm	IS 3396-1979
Dielectric Strength	7.00 - 9.00 kV/mm @Temperature 90.0 °C	178 - 229 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	
Injection Pressure	14.7 - 39.2 MPa	2130 - 5690 psi	Mold Pressure
Cure Time	1.50 - 1.83 min	0.0250 - 0.0306 hour	per mm

Processing Properties	Metric	English	Comments
Char Life	12-18 Month	12-18 Month	10-20 C

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