

Amity Thermosets ATR 126 Phenolic Molding Organic Filler, Injection Molded

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

Material Notes:

Characteristics:Ammonia freeGood mouldabilityGood mechanical strengthGood electrical insulationGood surface finishMedium thermal stability Color-black, brownSoft flow Applications:Telecommunication equipment partsAutomotive electrical parts Moulding which remain in contact with metal partsElectric switchgear components (eg. relay)Components exposed to warm atmosphere, etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATR-126-Phenolic-Molding-Organic-Filler-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|------------------------------------|----------------------|
| Density | 1.32 - 1.37 g/cc | 0.0477 - 0.0495 lb/in ³ | Molding; IS 867-1963 |
| Apparent Bulk Density | 0.600 - 0.680 g/cc | 0.0217 - 0.0246 lb/in ³ | IS 867-1963 |
| Water Absorption | 0.20 - 0.40 % | 0.20 - 0.40 % | IS 13411-1993 |
| Linear Mold Shrinkage | 0.0075 - 0.0090 cm/cm | 0.0075 - 0.0090 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 | 66.0 - 75.0 MPa | 9570 - 10900 psi | 2mm/min.; IS 867-1963 |
| Izod Impact, Notched | 0.220 - 0.300 J/cm | 0.412 - 0.562 ft-lb/in | IS 13411-1992 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---|--|--------------|
| Volume Resistivity | 1.00e+11 - 3.16e+11 ohm-cm | 1.00e+11 - 3.16e+11 ohm-cm | IS 3396-1979 |
| Surface Resistance | 1.00e+10 - 3.16e+10 ohm | 1.00e+10 - 3.16e+10 ohm | IS 3396-1979 |
| Dielectric Strength | 5.00 - 7.00 kV/mm @Temperature 90.0 °C | 127 - 178 kV/in @Temperature 194 °F | IS 2584-1963 |

| Processing Properties | Metric | English | Comments |
|--------------------------|----------------|--------------|----------|
| Rear Barrel Temperature | 65.0 - 85.0 °C | 149 - 185 °F | |
| Front Barrel Temperature | 85.0 - 95.0 °C | 185 - 203 °F | |
| Nozzle Temperature | <= 105 °C | <= 221 °F | |
| Mold Temperature | 160 - 180 °C | 320 - 356 °F | |

| Processing Properties | Metric 96 MPa | English 28400 psi | Comments |
|-----------------------|-------------------|------------------------|------------|
| Hold Pressure | 58.8 MPa | 8530 psi | |
| Cure Time | 0.200 - 0.333 min | 0.00333 - 0.00556 hour | per mm |
| Shelf Life | 1.50 Month | 1.50 Month | 27-30°C |
| | 4.00 Month | 4.00 Month | below 20°C |

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