

Sumitomo Bakelite Durez[®] 152 Phenolic, Injection Grade

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Mineral/Fiber Filled

Material Notes:

Durez 152 Phenolic is a two-stage, heat resistant/electrical molding material. It exhibits superior dimensional stability, good strength retention at elevated temperature and good molded appearance and machinability which account for its widespread use on electrical, telecommunication and appliance applications. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-152-Phenolic-Injection-Grade.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|---------------------------|------------|
| Density | 1.50 g/cc | 0.0542 lb/in ³ | ASTM D792 |
| Apparent Bulk Density | 0.68 g/cc | 0.025 lb/in ³ | ASTM D1895 |
| Water Absorption | 0.30 % | 0.30 % | ASTM D570 |
| Linear Mold Shrinkage | 0.010 cm/cm | 0.010 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------|-----------|-----------|
| Tensile Strength, Ultimate | 62 MPa | 9000 psi | ASTM D638 |
| Tensile Modulus | 9.0 GPa | 1300 ksi | ASTM D638 |
| Flexural Strength | 83 MPa | 12000 psi | |
| Compressive Strength | 207 MPa | 30000 psi | ASTM D695 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|----------------------|
| Maximum Service Temperature, Air | 160 Â°C | 320 Â°F | UL temperature Index |
| Deflection Temperature at 1.8 MPa (264 psi) | 191 Â°C | 376 Â°F | ASTM D648 |
| Flammability, UL94 | V-1 | V-1 | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | V-0 | V-0 | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|------------------------|-----------------|-----------------|-----------|
| Electrical Resistivity | 1.00e+12 ohm-cm | 1.00e+12 ohm-cm | ASTM D257 |
| Dielectric Constant | 5.2 | 5.2 | ASTM D150 |

| Electrical Properties | @Frequency 1e+6 Hz Metric | @Frequency 1e+6 Hz English | Comments |
|----------------------------|------------------------------|-------------------------------|-------------------------|
| Dielectric Strength | 10.8 kV/mm | 274 kV/in | Step by step; ASTM D149 |
| | 13.8 kV/mm | 351 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.050 | 0.050 | ASTM D150 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Comparative Tracking Index | 190 V | 190 V | IEC Tracking Index |

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