

Resinoid 1360HR

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 1360HR is a glass reinforced, two-step phenolic molding compound. It exhibits outstanding impact strength, electrical and thermal properties. It is particularly suitable for high temperature and strength applications. This material comes in pelletized form and is suitable for transfer or compression molding. It can be preformed on automatic equipment.

| General Information | | | |
|---|---------------------------------|-------------------|-----------------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Features | High strength | | |
| | Impact resistance, high | | |
| | Good electrical performance | | |
| | Heat resistance, high | | |
| Appearance | Black | | |
| Forms | Particle | | |
| Processing Method | Resin transfer molding | | |
| | Compression molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.75 | g/cm ³ | ASTM D792A, ISO 1183 |
| Water Absorption | | | |
| 24 hr | 0.35 | % | ASTM D570 |
| 23°C, 24 hr | 0.35 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | |
| Yield | 67.6 | MPa | ASTM D638 |
| Yield | 68.0 | MPa | ISO 527-2 |
| Flexural Modulus | | | |
| -- | 15200 | MPa | ASTM D790 |
| -- | 15000 | MPa | ISO 178 |
| Flexural Strength | 138 | MPa | ASTM D790, ISO 178 |
| Compressive Strength | 169 | MPa | ASTM D695, ISO 604 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | |
| -- | 120 | J/m | ASTM D256A |
| -- | 12 | kJ/m ² | ISO 180/2A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 360 | °C | ASTM D648, ISO 75-2/A |

| | | | |
|------------------------|---------------|----------|-------------|
| CLTE - Flow | 3.7E-5 | cm/cm/°C | ISO 11359-2 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | | | |
| -- | 130 | kV/mm | ASTM D149 |
| -- | 11 | kV/mm | IEC 60243-1 |
| Additional Information | | | |

DTUL @264 psi - Unannealed, ASTM D648: >680°FHDT A (1.80 MPa) Unannealed, ISO 75A-1-2: >360°C

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