

Resinoid 2002-4A

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 2002-4A is a fabric reinforced, two-step phenolic molding compound. It has been modified to meet gear requirements and other stressed applications. It possesses excellent impact and flexural strength. It is available in bulk form and is recommended for compression or transfer molding.

| General Information | |
|------------------------|----------------------------|
| Filler / Reinforcement | Glass fabric reinforcement |
| Features | High strength |
| | Impact resistance, high |
| Uses | Gear |
| Appearance | Black |
| Forms | Particle |
| Processing Method | Resin transfer molding |
| | Compression molding |

| Physical | Nominal Value | Unit | Test Method |
|-------------------|---------------|-------------------|----------------------|
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792A, ISO 1183 |
| Molding Shrinkage | | | |
| Flow | 0.20 - 0.40 | % | ASTM D955 |
| Flow direction | 0.20 - 0.40 | % | ISO 294-4 |
| Water Absorption | | | |
| 24 hr | 0.60 | % | ASTM D570 |
| 23°C, 24 hr | 0.60 | % | ISO 62 |

| Mechanical | Nominal Value | Unit | Test Method |
|----------------------|---------------|------|--------------------|
| Tensile Strength | | | |
| Yield | 55.2 | MPa | ASTM D638 |
| Yield | 55.0 | MPa | ISO 527-2 |
| Flexural Modulus | | | |
| -- | 11000 | MPa | ASTM D790 |
| -- | 75.8 | MPa | ISO 178 |
| Flexural Strength | | | |
| -- | 96.5 | MPa | ASTM D790 |
| -- | 97.0 | MPa | ISO 178 |
| Compressive Strength | 150 | MPa | ASTM D695, ISO 604 |

| Impact | Nominal Value | Unit | Test Method |
|---------------------|---------------|------|-------------|
| Notched Izod Impact | | | |
| -- | 110 | J/m | ASTM D256A |

| -- | 11 | kJ/m ² | ISO 180/2A |
|---------------------------------------------------------|---------------|-------------------|------------------------|
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 177 | °C | ASTM D648, ISO 75-2/A |
| CLTE - Flow | 1.8E-5 | cm/cm/°C | ASTM D696, ISO 11359-2 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | 13 | kV/mm | ASTM D149, IEC 60243-1 |
| Additional Information | | | |

Molding Pressure - Compression : 2000 to 4000 psi (14 to 28 MPa)Molding Temperature, ASTM D957: 300° to 350°F (150° to 175°C)

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