

Resinoid 1528

Phenolic

Resinoid Engineering Corporation

Message:

Resinoid 1528 is a glass and mineral reinforced, two-step phenolic molding compound offering good mechanical properties. This product has been specifically formulated for use in automotive applications. This material comes in pelletized form and is suitable for injection, transfer or compression molding. It can be preformed on automatic equipment.

| General Information | | | |
|------------------------|-------------------------|--|--|
| Filler / Reinforcement | Glass\Mineral | | |
| Uses | Automotive Applications | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Compression Molding | | |
| | Injection Molding | | |
| | Resin Transfer Molding | | |

| Physical | Nominal Value | Unit | Test Method |
|--------------------------|---------------|-------------------|----------------------|
| Specific Gravity | 1.81 | g/cm ³ | ASTM D792A, ISO 1183 |
| Molding Shrinkage - Flow | 0.10 | % | ASTM D955, ISO 294-4 |

| Mechanical | Nominal Value | Unit | Test Method |
|----------------------|---------------|------|--------------------|
| Flexural Modulus | | | |
| -- | 15900 | MPa | ASTM D790 |
| -- | 16000 | MPa | ISO 178 |
| Flexural Strength | 104 | MPa | ASTM D790, ISO 178 |
| Compressive Strength | 223 | MPa | ASTM D695, ISO 604 |

| Impact | Nominal Value | Unit | Test Method |
|---------------------|---------------|-------------------|-------------|
| Notched Izod Impact | | | |
| -- | 26 | J/m | ASTM D256A |
| -- | 2.6 | kJ/m ² | ISO 180/2A |

| Electrical | Nominal Value | Unit | Test Method |
|---------------------|---------------|-------|------------------------|
| Dielectric Strength | 12 | kV/mm | ASTM D149, IEC 60243-1 |
| Arc Resistance | 180 | sec | ASTM D495 |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

