

EMERGE™ PC/ABS 7560

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS advanced resin is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. Its superior processing makes it ideal for molding large parts and optimizing cycle time productivity in injection molding operations. It has a UL 94 flammability rating of V-0 at 1.5mm. This resin is suitable for use in a wide variety of applications in the information technology equipment and consumer electronics markets. Applications include: TV enclosures, monitor enclosures, PC enclosures, adaptors and chargers.

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| UL YellowCard | E54680-469954 | E206114-100109085 | |
| Features | Bromine Free | | |
| | Chlorine Free | | |
| | Flame Retardant | | |
| Uses | Electrical/Electronic Applications | | |
| | Television Housings | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.17 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 230°C/3.8 kg | 20 | g/10 min | |
| 260°C/5.0 kg | 75 | g/10 min | |
| Molding Shrinkage - Flow | 0.40 to 0.60 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield, 3.20 mm, Injection Molded | 62.1 | MPa | |
| Break, 3.20 mm, Injection Molded | 46.2 | MPa | |
| Tensile Elongation | | | ASTM D638 |
| Yield, 3.20 mm, Injection Molded | 4.0 | % | |
| Break, 3.20 mm, Injection Molded | 50 | % | |
| Flexural Modulus (3.20 mm, Injection Molded) | 2830 | MPa | ASTM D790 |
| Flexural Strength (3.20 mm, Injection Molded) | 97.9 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.20 mm, Injection Molded) | 370 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |

| 0.45 MPa, Unannealed, Injection Molded | 93.9 | °C | |
|--|---------------|------|-------------------------|
| 1.8 MPa, Unannealed, Injection Molded | 82.2 | °C | |
| Vicat Softening Temperature | 108 | °C | ASTM D1525 ¹ |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating ² (1.50 mm) | V-0 | | UL 94 |
| Oxygen Index ³ | 29 | % | ASTM D2863 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 79.4 to 90.6 | °C | |
| Drying Time | 3.0 to 4.0 | hr | |
| Processing (Melt) Temp | 220 to 250 | °C | |
| Mold Temperature | 60.0 to 90.6 | °C | |

NOTE

1. Rate B (120°C/h), Loading 1 (10 N)

2. This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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