

Hetron™ FR 650 INF-20

Thermoset Polyester
Ashland Performance Materials

Message:

HETRON FR 650 Series resins are flame retardant polyester resins. Composites made with HETRON FR 650 Series resins have been tested and have achieved a Class 1 Flame Spread per ASTM E-84 without addition of synergists such as antimony trioxide.
HETRON FR 650 INF-20 resin is a low viscosity promoted resin optimized for the infusion process. This grade may also be used for resin transfer molding. It exhibits excellent glass wet out properties.

APPLICATIONS AND USE

HETRON FR 650 Series resins, depending on the grade selected, can be used in hand lay-up, spray-up, filament winding and infused flame retardant applications. Markets include architectural, mass transit, passenger rail, electrical and mine ducting.

| General Information | | | |
|---|------------------------|---------|-------------|
| Features | Low viscosity | | |
| | High strength | | |
| | Enhanced activity | | |
| | Flame retardancy | | |
| Agency Ratings | ASTM E 84 Class 1 | | |
| Forms | Liquid | | |
| Processing Method | Filament power winding | | |
| | Hand coating | | |
| | Resin transfer molding | | |
| | | | |
| Physical | Nominal Value | Unit | |
| Solution Viscosity ¹ | 180 | mPa · s | |
| Solids Content | 60 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3520 | MPa | ASTM D638 |
| Tensile Strength | 77.2 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.7 | % | ASTM D638 |
| Flexural Modulus | 3520 | MPa | ASTM D790 |
| Flexural Strength | 123 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 68.9 | °C | ASTM D648 |
| Additional Information | | | |
| Properties of cured casting at 25°C | | | |
| Uncured Properties | Nominal Value | Unit | |
| Gel Time | 25 | min | |
| NOTE | | | |

1. Brookfield #2 spindle @ 30 rpm

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