

FRblend® PP-1314

Polypropylene

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

FRblend® PP-1314 is a high flow, mineral filled and flame retardant polypropylene compound. This grade offers moderate impact strength and high rigidity. The flame retardant system is base on halogenated hydrocarbon compounds.

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| UL YellowCard | E316349-100578005 | | |
| Filler / Reinforcement | Mineral | | |
| Additive | Flame Retardant | | |
| Features | Flame Retardant | | |
| | Halogenated | | |
| | High Flow | | |
| | High Rigidity | | |
| | Medium Impact Resistance | | |
| Uses | Automotive Applications | | |
| | Electrical/Electronic Applications | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.30 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (3.20 mm) | 1.0 to 1.7 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.030 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2270 | MPa | ASTM D638 |
| Tensile Strength | 26.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 15 | % | ASTM D638 |
| Flexural Modulus | 2500 | MPa | ASTM D790 |
| Flexural Strength | 42.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 26 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 4.00 mm) | 120 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.60 mm) | V-0 | | UL 94 |

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 60.0 to 80.0 | °C |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 180 to 190 | °C |
| Middle Temperature | 190 to 200 | °C |
| Front Temperature | 200 to 210 | °C |
| Nozzle Temperature | 210 to 220 | °C |
| Mold Temperature | 30.0 to 60.0 | °C |

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