Technical Data Sheet

# *Polyflam* RPP 2130 GRY60305

Polypropylene, Homopolymer

**Product Description**

30% mineral filled flame-retardant PP-Homopolymer; halogen free

| | |
|---|---|
| **Processing Method** | Injection Molding |
| **Attribute** | Good Color Stability; Halogen Free; High Strength |
| **Additive** | Flame Retardant |
| **Filler/Reinforcement** | Mineral, 30% |
| **Resin ID** | PP MD30 FR(53) |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Volume Flow Rate, (230 °C/2.16 kg) | 21 | cm³/10 min | ISO 1133 |
| Density, (Method A) | 1.18 | g/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Stress at Yield, (Type 1A, 50 mm/min) | 28.0 | MPa | ISO 527-2 |
| Tensile Strain at Yield, (Type 1A, 50 mm/min) | 4.3 | % | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 2940 | MPa | ISO 527-1 |
| **Impact** | | | |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 2.0 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise) | 26 | kJ/m² | ISO 179 |
| **Electrical** | | | |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| Surface Resistivity | >1.0E+15 | ohm | IEC 60093 |
| **Flammable** | | | |
| Glow Wire Flammability Index | | | |
| (1.5 mm) | 960 | °C | IEC 60695-2-12 |
| (2.0 mm) | 960 | °C | IEC 60695-2-12 |
| (3.0 mm) | 960 | °C | IEC 60695-2-12 |
| **UL Information** | | | |
| Flame Rating | | | |
| (1.6 mm) | V-2 | | UL 94 |
| (3.2 mm) | V-2 | | UL 94 |
| (2.5 mm) | V-2 | | UL 94 |

| Injection Parameters | Nominal Value | Units |
|---|---|---|
| Drying Time | 2.0 to 4.0 | hr |
| Drying Temperature | 70 to 80 | °C |
| Nozzle Temperature | 220 | °C |
| Screw Speed | <300 | mm/sec |
| Processing (Melt) Temp | 180 to 210 | °C |
| Front Temperature | 210 | °C |
| Holding Pressure | 40.0 to 90.0 | MPa |
| Middle Temperature | 200 | °C |
| Rear Temperature | 180 | °C |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 5.00 to 10.0 | MPa |
| Mold Temperature | 40 to 80 | °C |
| Injection Pressure | 80.0 to 120 | MPa |
| Cushion | <5.00 | mm |