

Polyflam RPP 2130 GRY60305

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

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

General

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

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|------------------------|-----------------|
| Density | 1.18 | g/cm ³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 21 | cm ³ /10min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 426000 | psi | ISO 527-1/1A/1 |
| Tensile Stress (Yield) | 4060 | psi | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 4.3 | % | ISO 527-2/1A/50 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 0.95 | ft·lb/in ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (73°F) | 12 | ft·lb/in ² | ISO 179/1eU |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+15 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+13 | ohms·m | IEC 62631-3-1 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.06 in | | V-2 | |
| 0.10 in | | V-2 | |
| 0.13 in | | V-2 | |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.06 in | 1760 | °F | |
| 0.08 in | 1760 | °F | |
| 0.12 in | 1760 | °F | |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 158 to 176 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 356 | °F |
| Middle Temperature | 392 | °F |
| Front Temperature | 410 | °F |
| Nozzle Temperature | 428 | °F |

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| Injection | Nominal Value | Unit |
|------------------------|----------------|--------|
| Processing (Melt) Temp | 356 to 410 | °F |
| Mold Temperature | 104 to 176 | °F |
| Injection Pressure | 11600 to 17400 | psi |
| Injection Rate | Slow-Moderate | |
| Holding Pressure | 5800 to 13100 | psi |
| Back Pressure | 725 to 1450 | psi |
| Screw Speed | < 709 | in/min |
| Cushion | < 0.197 | in |