**Technical Data Sheet**

# *Polyflam* RIPP 374 ND CS1 GREY 64540 K3020

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

| Product Description |
|---|
| 20% talc filled flame-retardant PP-Copolymer; without PBDE |

| General | | | |
|---|---|---|---|
| Filler / Reinforcement | • Talc, 20% Filler by Weight | | |
| Features | • Copolymer | • Copper Contact Stabilized | • Flame Retardant |
| UL File Number | • E86615 | | |
| Processing Method | • Injection Molding | | |
| Resin ID (ISO 1043) | • PP TD20 FR(17) | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.44 g/cm³ | 1.44 g/cm³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (230°c/2.16 Kg) | 12 cm³/10min | 12 cm³/10min | ISO 1133 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 319000 psi | 2200 MPa | ISO 527-1/1A/1 |
| Tensile Stress (Yield) | 2760 psi | 19.0 MPa | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 1.6 % | 1.6 % | ISO 527-2/1A/50 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| 73°f (23°c) | 19 ft·lb/in² | 40 kJ/m² | |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Vicat Softening Temperature | 289 °F | 143 °C | ISO 306/A50 |
| Ball Pressure Test (212°f (100°c)) | Pass | Pass | IEC 60695-10-2 |
| RTI Elec | | | UL 746B |
| 0.06 In (1.5 Mm) | 122 °F | 50.0 °C | |
| 0.12 In (3.0 Mm) | 122 °F | 50.0 °C | |
| RTI Imp | | | UL 746B |
| 0.06 In (1.5 Mm) | 122 °F | 50.0 °C | |
| 0.12 In (3.0 Mm) | 122 °F | 50.0 °C | |
| RTI Str | | | UL 746B |
| 0.06 In (1.5 Mm) | 122 °F | 50.0 °C | |
| 0.12 In (3.0 Mm) | 122 °F | 50.0 °C | |
| **Electrical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |
| **Flammability** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Burning Rate | | | ISO 3795 |
| 0.0591 In (1.50 Mm), Self-extinguishing | 0.0 in/min | 0.0 mm/min | |
| 0.118 In (3.00 Mm), Self-extinguishing | 0.0 in/min | 0.0 mm/min | |
| Flame Rating | | | |
| 0.031 In (0.8 Mm) | V-0 | V-0 | UL 94 |
| 0.06 In (1.5 Mm) | V-0 | V-0 | UL 94<br>IEC 60695-11-10, -20 |
| 0.12 In (3.0 Mm) | V-0 | V-0 | UL 94<br>IEC 60695-11-10, -20 |
| 0.03 In (0.8 Mm) | V-0 | V-0 | IEC 60695-11-10, -20 |

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| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.06 In (1.5 Mm) | 1760 °F | 960 °C | |
| 0.12 In (3.0 Mm) | 1760 °F | 960 °C | |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 0.06 In (1.5 Mm) | 1380 °F | 750 °C | |
| 0.12 In (3.0 Mm) | 1380 °F | 750 °C | |
| Oxygen Index | 27 % | 27 % | ISO 4589-2 |

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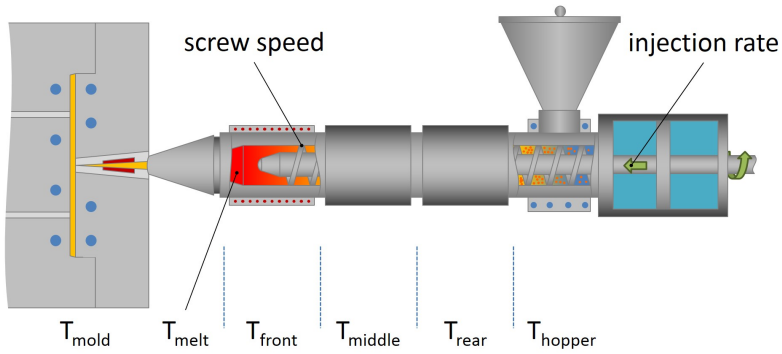


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 158 to 176 °F | 70 to 80 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Processing (Melt) Temp | 356 to 428 °F | 180 to 220 °C |
| Mold Temperature | 104 to 176 °F | 40 to 80 °C |
| **Injection Notes** | | |
| Mould surface contacting melt should be of non-corrosive steel (content of chrome > 12%) | | |

## Notes

These are typical property values not to be construed as specification limits.