

Technical Data Sheet

Polyflam RPP 1058

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description

Homopolymer polypropylene flame retardant with a V-2 flammability rating.

General

- | | |
|-------------------|---------------------|
| Features | • Flame Retardant |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|-------------------------|-------------|
| Density / Specific Gravity | 0.952 | 0.950 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 4.0 to 7.0 g/10 min | 4.0 to 7.0 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength ¹ (Yield) | 4350 psi | 30.0 MPa | ASTM D638 |
| Tensile Elongation ¹ (Break) | 200 % | 200 % | ASTM D638 |
| Flexural Modulus ² | 174000 psi | 1200 MPa | ASTM D790 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact | 0.56 ft·lb/in | 30 J/m | ASTM D256 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 Psi (0.45 Mpa), Unannealed | 203 °F | 95.0 °C | |
| 264 Psi (1.8 Mpa), Unannealed | 131 °F | 55.0 °C | |
| RTI Elec (0.03 To 0.12 In (0.8 To 3.0 Mm)) | 221 °F | 105 °C | UL 746B |
| RTI Imp (0.03 To 0.12 In (0.8 To 3.0 Mm)) | 221 °F | 105 °C | UL 746B |
| RTI Str (0.03 To 0.12 In (0.8 To 3.0 Mm)) | 221 °F | 105 °C | UL 746B |
| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Flame Rating | | | UL 94 |
| 0.030 In (0.75 Mm), All | V-2 | V-2 | |
| 0.06 In (1.5 Mm), All | V-2 | V-2 | |
| 0.12 In (3.0 Mm), All | V-2 | V-2 | |

Notes

- ¹ 2.0 in/min (50 mm/min)
- ² 0.051 in/min (1.3 mm/min)

Notes

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