

Technical Data Sheet



Polyflam RLD 7750

Polyethylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

Flame retardant Polyolefin compound with expandable graphite for extrusion and injection molding applications.

General

Material Status	• Commercial: Active
Availability	• Europe
Features	• Flame Retardant
Processing Method	• Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.24 g/cm ³	1.24 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/21.6 kg)	7.0 cm ³ /10min	7.0 cm ³ /10min	ISO 1133
Foam - Physical			
expansion factor : 752°F (400°C)	16	16	
expansion pressure	33 psi	0.230 MPa	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	29000 psi	200 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	624 psi	4.30 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	10 %	10 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	17 ft·lb/in ²	35 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	13 ft·lb/in ²	28 kJ/m ²	
73°F (23°C)	No Break	No Break	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A, 3 sec)	26	26	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	113 °F	45.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	91.4 °F	33.0 °C	ISO 75-2/ Af
Vicat Softening Temperature	142 °F	61.0 °C	ISO 306/A50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+14 ohms	> 1.0E+14 ohms	IEC 60093
Volume Resistivity	> 1.0E+12 ohms·m	> 1.0E+12 ohms·m	IEC 62631-3-1
Comparative Tracking Index	600 V	600 V	IEC 60112
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	
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	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	158 °F	70 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	< 338 °F	< 170 °C
Mold Temperature	104 °F	40 °C

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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