

Technical Data Sheet

Polyflam RPP 7750

Polyethylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

Flame retardant Polyolefin compound with expandable graphite for extrusion application

General

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	

Notes

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