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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/cm³	1.24 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°c/21.6 Kg)	7.0 cm³/10min	7.0 cm³/10min	ISO 1133
Foam - Physical			
expansion factor : 752°f (400°c)	16	16	
expension 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/in²	10 kJ/m²	
73°f (23°c)	17 ft·lb/in²	35 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	13 ft·lb/in²	28 kJ/m²	
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.