

Technical Data Sheet

Polyflam RLD 7750

Polyethylene Copolymer

Product Description

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

Processing Method Extrusion

Additive Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/21.6 kg)	7.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.24	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	4.30	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	10	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	200	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	35	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	28	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore A, 3 sec)	26		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	61.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	45.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	33.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+12	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+14	ohm	IEC 60093
Flammable			
Glow Wire Flammability Index, (1.5 mm)	960	°C	IEC 60695-2-12

Glow Wire Ignition Temperature			
(1.5 mm)	750	°C	IEC 60695-2-13
(3.0 mm)	750	°C	IEC 60695-2-13

Injection Parameters	Nominal	
	Value	Units
Drying Time	2	hr
Drying Temperature	70	°C
Processing (Melt) Temp	<170	°C
Mold Temperature	40	°C