

Technical Data Sheet

Polyflam RLD 7750



Polyethylene Copolymer

Product Description

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

Regulatory Status

For regulatory compliance information, see *Polyflam RLD 7750* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
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)

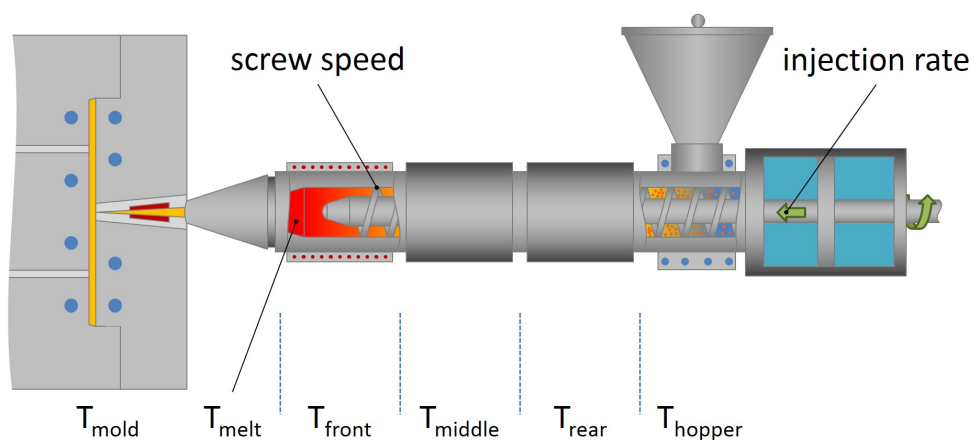
750 °C

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

Notes

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

Processing notes

Melt contacting surfaces should be made of a high quality, corrosive resistant steel. Positive experiences have been made with steel qualities containing > 12% chromium.

Avoid processing at very barrel high temperatures or above the recommended melt temperature range as this can increase risk of deposit onto the tool surfaces. Avoid long residence times. At start and end of production, it is recommended to purge clean with non-flame retardant polymer or a polyolefin.

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.

Company Information

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

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