Technical Data Sheet

Polyflam RIPP 2000 HI BUE48625

Polypropylene Copolymer

Product Description

Unfilled flame-retardant PP-Copolymer grade, halogen free acc. DIN VDE 0172 part 815, high impact

Regulatory Status

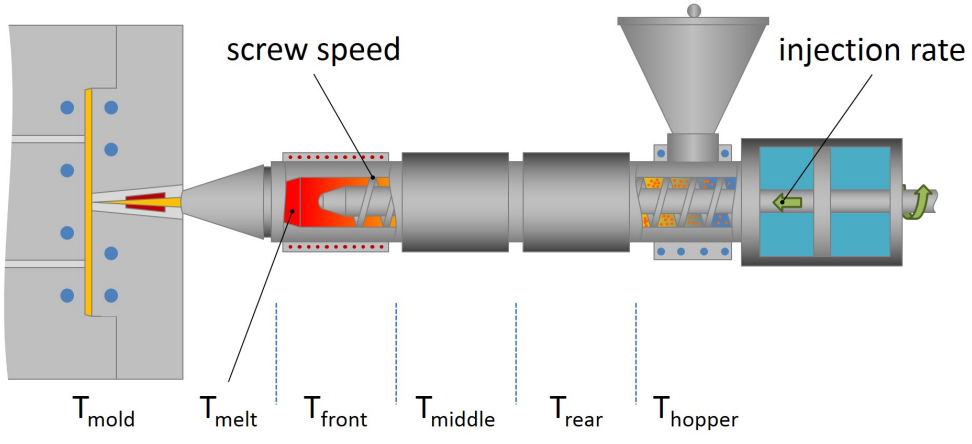
For regulatory compliance information, see *Polyflam* RIPP 2000 HI BUE48625 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Europe
Processing Method	Injection Molding
Attribute	Copolymer; Good Processability; Halogen Free; High Impact Resistance; Impact Modified; UL Listed under File Numbers E86615 / E132739 / E31765
Additive	Flame Retardant
Resin ID	PP FR(53)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	10	cm³/10 min	ISO 1133
Density, (Method A)	0.910	g/cm³	ISO 1183
Mechanical			
Tensile Modulus, (1 mm/min, Type 1A)	1100	MPa	ISO 527-1
Tensile Strain at Yield, (Type 1A, 50 mm/min)	10	%	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	300	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	1100	MPa	ISO 178
Flexural Stress			
(2.0 mm/min, 3.5%)	22.0	MPa	ISO 178
(2.0 mm/min, 6.4%)	27.0	MPa	ISO 178
Tensile Stress at Yield, (Type 1A, 50 mm/min)	23.0	MPa	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	18.0	MPa	ISO 527-2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	11	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	12	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	80	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature			
(A (10N), 50 °C/h)	140	°C	ISO 306
(B (50N), 50 °C/h)	61.0	°C	ISO 306

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Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	71.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	45.0	°C	ISO 75-2/A
Electrical			
Comparative Tracking Index (CTI)	600	V	IEC 60112
Flammable			
Glow Wire Flammability Index			
(0.75 mm)	960	°C	IEC 60695-2-12
(1.5 mm)	960	°C	IEC 60695-2-12
(2.0 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(0.75 mm)	775	°C	IEC 60695-2-13
(1.5 mm)	725	°C	IEC 60695-2-13
(3.0 mm)	750	°C	IEC 60695-2-13
(2.0 mm)	725	°C	IEC 60695-2-13
UL Information			
Flame Rating			
(1.6 mm)	V-2		UL 94
(3.2 mm)	V-2		UL 94
(0.8 mm)	V-2		UL 94
Flammability Classification			
(0.8 mm)	V-2		IEC 60695-11-10, -20
(1.6 mm)	V-2		IEC 60695-11-10, -20
(3.2 mm)	V-2		IEC 60695-11-10, -20



Injection Parameters	Nominal Value	Units
Drying Temperature	70	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	180 to 220	°C
Mold Temperature	40 to 80	°C
Screw Speed	<300	mm/sec
Holding Pressure	40.0 to 90.0	MPa
Back Pressure	5.00 to 10.0	MPa

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Injection Pressure	80.0 to 120	MPa
Injection Rate	Slow-Moderate	

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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