

Technical Data Sheet

Polyflam RIPP 5000 CC NAT



Polypropylene Copolymer

Product Description

Unfilled flame-retardant PP-Copolymer for extrusion and cable coating with continuous use temperature -40°C to 125°C

Regulatory Status

For regulatory compliance information, see *Polyflam RIPP 5000 CC NAT* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Extrusion Coating
Attribute	Copolymer
Additive	Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	3.5	cm ³ /10 min	ISO 1133
Density, (Method A)	1.15	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	11.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	400	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	650	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	27	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	15.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	500	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	12.0	MPa	ISO 178
(2.0 mm/min, 6.6%)	13.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	55	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
Hardness			
Shore Hardness, (Shore D, DIN 53505)	49		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	83.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	55	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	45.0	°C	ISO 75-2/A
Electrical			

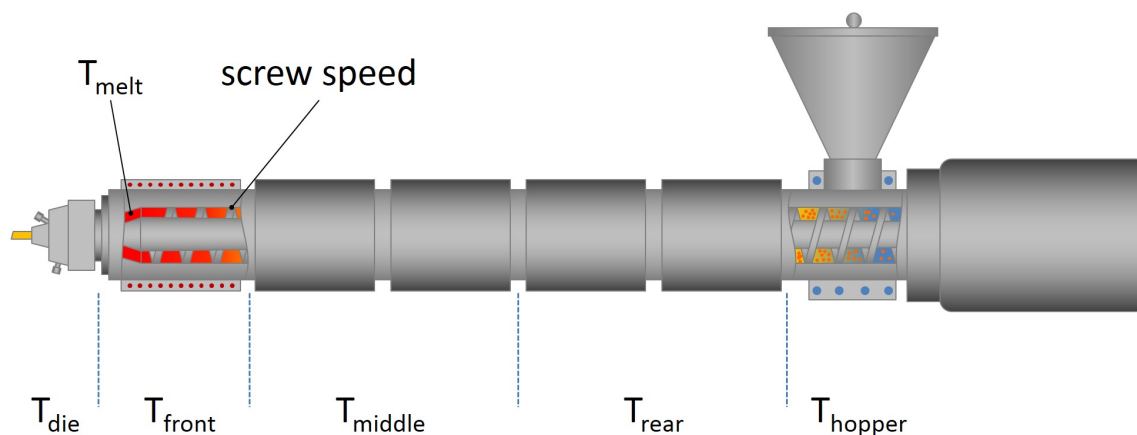
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093

Flammable

Burning Rate			
(2.00 mm, Self-Extinguishing)	0.0	mm/min	FMVSS 302
(2.00 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
Glow Wire Flammability Index			
(0.75 mm)	960	°C	IEC 60695-2-12
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(0.75 mm)	675	°C	IEC 60695-2-13
(1.5 mm)	675	°C	IEC 60695-2-13
(3.0 mm)	675	°C	IEC 60695-2-13
Oxygen Index	27	%	ISO 4589-2

UL Information

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	



Extrusion Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Melt Temperature	180 to 210	°C
Drying Temperature	70 to 80	°C

Notes

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

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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