

Technical Data Sheet

Polyflam RPP 374ND CS1 NATURAL



Polypropylene, Homopolymer

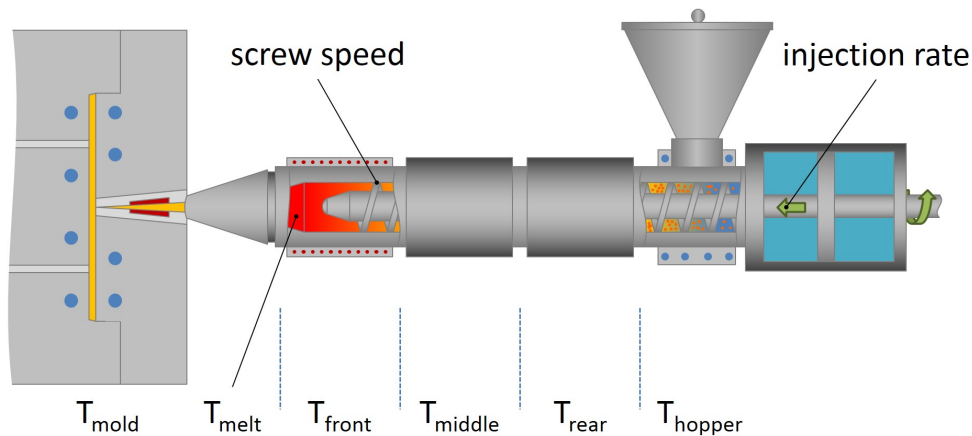
Product Description

{product.name} is a 20% talc filled flame-retardant PP-homopolymer; without PBDE

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Copper Contact Stabilized; Homopolymer
Additive	Flame Retardant
Filler/Reinforcement	Talc, 20%
Resin ID	PP TD20 FR(17)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	19	cm ³ /10 min	ISO 1133
Density, (Method A)	1.35	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	21.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.5	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3000	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	2.3	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	20	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	8.5	kJ/m ²	ISO 179
Hardness			
Ball Pressure Test, (125 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	82.0	°C	ISO 306
(A (10N), 50 °C/h)	145	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	118	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	60.0	°C	ISO 75-2/A
RTI Elec			
(1.5 mm)	105	°C	UL 746B
(3.0 mm)	105	°C	UL 746B
RTI Imp			
(1.5 mm)	105	°C	UL 746B
(3.0 mm)	105	°C	UL 746B

RTI Str			
(1.5 mm)	105	°C	UL 746B
(3.0 mm)	105	°C	UL 746B
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			
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	700	°C	IEC 60695-2-13
(3.0 mm)	700	°C	IEC 60695-2-13
Oxygen Index	26	%	ISO 4589-2
Additional Information			
Water Absorption 23C/50RH	0.16	%	ISO 62
UL Information			
Flame Rating			
(1.5 mm)	V-0		UL 94
(3.0 mm)	V-0		UL 94
Flammability Classification			
(1.5 mm)	V-0		IEC 60695-11-10, -20
(3.0 mm)	V-0		IEC 60695-11-10, -20
UL File Number	E86615		



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	70 to 80	°C
Nozzle Temperature	220	°C

Screw Speed	<300	mm/sec
Processing (Melt) Temp	180 to 220	°C
Front Temperature	210	°C
Holding Pressure	40.0 to 90.0	MPa
Middle Temperature	200	°C
Rear Temperature	180	°C
Injection Rate	Slow- Moderate	
Back Pressure	5.00 to 10.0	MPa
Mold Temperature	40 to 80	°C
Injection Pressure	80.0 to 120	MPa
Cushion	<5.00	mm

For regulatory compliance information, see *Polyflam* RPP 374ND CS1 NATURAL [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

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

Material handling, shelf life & storage

For good processing, we recommend our Product should be stored for no more than 12 months in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage may bring damage to the packaging and product and can negatively affect the quality of this product and reduce shelf life considerably.

Company Information

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

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Recycling note

This product is based in a thermoplastic resin that is suitable for mechanical recycling, partially or completely. Please, consider the whole construction of the final product using our grade and determine the suitable disposition for recollection, separation and recycling process. The packaging of Lyondellbasell's products (plastic bags, cardboard boxes and stretch film) are also suitable for mechanical recycling. Any further information needed, contact the ADTS team from Lyondellbasell.