Technical Data Sheet

Polyfort FPP 30 MW NAT

Polypropylene, Homopolymer

Product Description

30% Wollastonite filled PP-Homopolymer

Regulatory Status

For regulatory compliance information, see *Polyfort* FPP 30 MW NAT Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

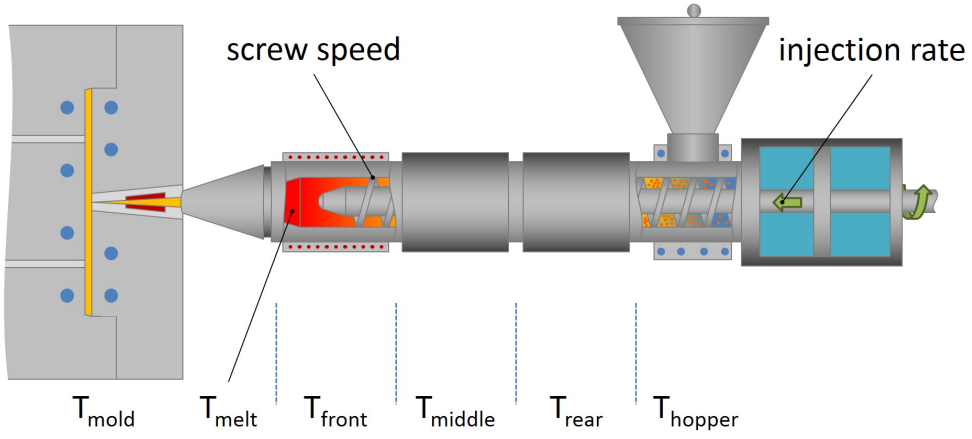
Status	Commercial: Active
Availability	Asia-Pacific; Europe; North America
Processing Method	Injection Molding
Filler/Reinforcement	Wollastonite

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.0	cm³/10 min	ISO 1133
Density, (Method A)	1.14	g/cm³	ISO 1183
Mechanical			
Tensile Modulus, (1 mm/min, Type 1A)	2800	MPa	ISO 527-1
Tensile Strain at Yield, (Type 1A, 50 mm/min)	5.5	%	ISO 527-2
Tensile Stress at Yield, (Type 1A, 50 mm/min)	29.0	MPa	ISO 527-2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	2.8	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	1.1	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	72	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	16	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	78.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A (10N), 50 °C/h)	150	°C	ISO 306
(B (50N), 50 °C/h)	87.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	54.0	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	28	mm/min	ISO 3795
(2.00 mm)	>28	mm/min	FMVSS 302
Glow Wire Flammability Index			
(1.5 mm)	700	°C	IEC 60695-2-12
(3.0 mm)	700	°C	IEC 60695-2-12

Manufacturer website: https://www.lyondellbasell.com/en/

Glow Wire Ignition Temperature			
(1.5 mm)	725	°C	IEC 60695-2-13
(3.0 mm)	725	°C	IEC 60695-2-13

UL Information			
Flammability Classification			
(1.6 mm)	HB		IEC 60695-11-10, -20
(3.2 mm)	HB		IEC 60695-11-10, -20



Injection Parameters	Nominal Value	Units
Drying Temperature	80	°C
Drying Time	2.0 to 3.0	hr
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C
Injection Rate	Moderate-Fast	

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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