

# Polyfort FPP 30 MW NAT

## LyondellBasell Industries - Polypropylene Homopolymer

### General Information

#### Product Description

30% Wollastonite filled PP-Homopolymer

#### General

Filler / Reinforcement	• Wollastonite (CaSiO <sub>3</sub> )
Processing Method	• Injection Molding

### Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.0	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	406000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4210	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	5.5	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	0.52	ft·lb/in <sup>2</sup>	
73°F	1.3	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	7.6	ft·lb/in <sup>2</sup>	
73°F	34	ft·lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	11300	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	129	°F	
Vicat Softening Temperature			
--	189	°F	ISO 306/B50
--	302	°F	ISO 306/A50
Flammability	Nominal Value	Unit	Test Method
Burning Rate			
0.0787 in	1.1	in/min	ISO 3795
0.0787 in	> 1.1	in/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in		HB	
0.13 in		HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1290	°F	
0.12 in	1290	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1340	°F	
0.12 in	1340	°F	

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### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 3.0	hr
Processing (Melt) Temp	428 to 500	°F
Mold Temperature	86 to 140	°F
Injection Rate	Moderate-Fast	