

Polyfort FPP 30GFC NAT HF

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

30% glass fiber reinforced PP-Homopolymer chemically coupled

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemically Coupled • Homopolymer
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	943000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	12200	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus ²	870000	psi	ISO 178
Flexural Stress ²			ISO 178
3.4% Strain	18600	psi	
3.6% Strain	18300	psi	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.8	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	21	ft·lb/in ²	
73°F	23	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	17400	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	318	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	320	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	266	°F	ISO 306/B50
--	329	°F	ISO 306/A50
Ball Pressure Test (293°F)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1

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Flammability	Nominal Value	Unit	Test Method
Burning Rate			
0.0787 in	2.3	in/min	ISO 3795
0.0787 in	2.3	in/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in	HB		
0.12 in	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1340	°F	
0.12 in	1380	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in, Passes	1380	°F	
0.12 in, Passes	1430	°F	

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	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min