

Polyfort FPP 20 GFC NATURAL

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

20% chemical coupled glass fiber reinforced PP-Homopolymer

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Chemically Coupled • Homopolymer
Processing Method	• Injection Molding

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.05	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	667000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	9860	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.3	ft·lb/in ²	
73°F	3.8	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	12	ft·lb/in ²	
73°F	19	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	14500	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	307	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	277	°F	ISO 75-2/ Af
Vicat Softening Temperature			
--	239	°F	ISO 306/B50
--	320	°F	ISO 306/A50
Ball Pressure Test (266°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
Flammability	Nominal Value	Unit	Test Method
Burning Rate			
0.0787 in	< 3.9	in/min	ISO 3795
0.0787 in	< 3.9	in/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in	HB		
0.12 in	HB		

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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	