Polyfort FPP 20GFM HI BLK

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

POLYFORT FPP 20GFM HI BLK is a 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	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	3.0	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	696000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	10200	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 (73°F)	4.8	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in²	ISO 179/1eU
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			ISO 75-2/Af
264 psi, Unannealed	277	°F	
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	FMVSS 302
0.0787 in	< 3.9	in/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.06 in	HB		
0.12 in	HB		

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	428 to 500	°F

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Injection	Nominal Value	Unit
Mold Temperature	86 to 140	°F
Injection Rate	Moderate-Fast	