

Polyfort FPP 10 GFC C1 NAT

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

10% glass fibre reinforced PP-Homopolymer chemically coupled

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Processing Method	• Injection Molding
Resin ID	• PP H 10GFC

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	8.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	408000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	7250	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/1A/50
Flexural Modulus ²	360000	psi	ISO 178
Flexural Stress ²			ISO 178
3.5% Strain	8410	psi	
6.0% Strain	9790	psi	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.1	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	18	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	230	°F	
Vicat Softening Temperature	239	°F	ISO 306/B50
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

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