

Polyfort FPP 20/10 TGF NAT

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

10% glass fibre and 10% talc filled PP homopolymer with high strength and low warpage.

General

Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 10% Filler by Weight Talc, 10% Filler by Weight
Features	<ul style="list-style-type: none"> High Strength Homopolymer Low Warpage
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

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)	7.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	522000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	6240	psi	ISO 527-2/1A/5
Tensile Strain (Break)	6.0	%	ISO 527-2/1A/5
Flexural Modulus	580000	psi	ISO 178
Flexural Stress	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.9	ft·lb/in ²	
73°F	2.4	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	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	293	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	239	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	221	°F	ISO 306/B50
--	320	°F	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
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 (0.06 in)	HB		IEC 60695-11-10, -20

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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