

Polyfort FPP 20 T NATURAL

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

POLYFORT FPP 20 T NATURAL is a 20% talc filled PP-Homopolymer compound

General

Filler / Reinforcement	• Talc, 20% Filler by Weight
Features	• Low Emissions
Processing Method	• Injection Molding
Resin ID	• PP-T

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	9.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	377000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4790	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	0.95	ft·lb/in ²	
73°F	1.4	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	6.7	ft·lb/in ²	
73°F	18	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	11900	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	228	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	136	°F	ISO 75-2/af
Vicat Softening Temperature			
--	183	°F	ISO 306/B50
--	306	°F	ISO 306/A50
Ball Pressure Test (257°F)	Pass		IEC 60695-10-2
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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Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1340	°F	
0.12 in	1340	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1380	°F	
0.12 in	1380	°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	