

Polyfort FPP 40 T LE K1858 BLK

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

40% talc filled PP homopolymer, low emission

General

Filler / Reinforcement	• Talc, 40% Filler by Weight
Features	• Homopolymer • Low Emissions
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	6.0	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	522000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4350	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.2	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	10	ft·lb/in ²	
Notched Izod Impact (Area) (73°F)	1.90	ft·lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	10600	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	271	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	176	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	207	°F	ISO 306/B50
--	313	°F	ISO 306/A120
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	1.9	in/min	FMVSS 302
0.0787 in	1.9	in/min	ISO 3795

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Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.06 in		HB	
0.12 in		HB	
Glow Wire Flammability Index	1380	°F	IEC 60695-2-12

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