Polyfort FPP 20T K1534 NAT

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

20 % talc filled PP Homopolymer

General

Filler / Reinforcement	• Talc, 20% Filler by Weight	
Features	• Food Contact Acceptable	• Homopolymer
Processing Method	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.8	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	7.0	cm³/10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	392000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4790	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	5.5	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.4	ft·lb/in²	
73°F	1.9	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	8.1	ft·lb/in²	
73°F	20	ft·lb/in²	
Notched Izod Impact (Area) (73°F)	1.90	ft·lb/in²	ASTM D256
Notched Izod Impact Strength (73°F)	1.4	ft·lb/in²	ISO 180/1A
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)	221	°F	ISO 75-2/Bf
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	149	°F	
Vicat Softening Temperature			
--	158	°F	ISO 306/B50
--	311	°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	< 3.9	in/min	ISO 3795
0.0787 in	< 3.9	in/min	FMVSS 302

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Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.06 in)	HB		IEC 60695-11-10, -20
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
Injection Rate	Moderate-Fast	