Polyfort FPP 1151E-31 40 BLKBLK

LyondellBasell Industries - Polypropylene

General Information

Product Description

Extrusion grade, 40% calcium carbonate filled, high molecular weight polypropylene.

General

Filler / Reinforcement	• Calcium Carbonate, 40% Filler by Weight	
Processing Method	• Extrusion	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.26		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30 to 0.60	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30 to 0.60	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.30 to 0.60	cm³/10min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 73°F)	3480	psi	ASTM D638
Tensile Stress (Yield, 73°F)	3630	psi	ISO 527-2/50
Flexural Modulus - Tangent [3] (73°F)	334000	psi	ASTM D790
Flexural Modulus - Tangent [4] (73°F)	406000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
73°F, Injection Molded	4.8	ft·lb/in²	
Notched Izod Impact (73°F, Injection Molded)	2.4	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F, Injection Molded)	4.8	ft·lb/in²	ISO 180
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	88		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	212	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	136	°F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	144	°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	