Polyfort FPP 3790-080 GRY

LyondellBasell Industries - Polypropylene

General Information

Product Description

PP compound with 40% talc filler. Long term heat stabilized.

General

Filler / Reinforcement	• Talc, 40% Filler by Weight
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	11	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	653000	psi	ISO 527-1
Tensile Stress (Break)	3630	psi	ISO 527-2
Tensile Strain (Break)	3.8	%	ISO 527-2
Flexural Modulus	725000	psi	ISO 178
Flexural Stress (7.0% Strain)	2900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-22°F	0.81	ft·lb/in²	
73°F	1.1	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179
-22°F	4.8	ft·lb/in²	
73°F	7.1	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	266	°F	ISO 75-2/B
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	165	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 62631-3-2
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate (0.0787 in)	2.0	in/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.03 in	HB		
0.06 in	HB		

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	