Polyfort RPP30EA18BK-BK GAPEXBLK

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Primary use is for battery tray supports.

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Chemically Coupled	• Heat Stabilized
Uses	• Support Trays	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Density	1.14	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.8	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	10500	psi	ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	689000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°F	0.90	ft·lb/in	
73°F	1.2	ft·lb/in	
Notched Izod Impact Strength			ISO 180
-40°F	2.3	ft·lb/in²	
73°F	3.2	ft·lb/in²	
Unnotched Izod Impact (73°F)	9.9	ft·lb/in	ASTM D4812
Gardner Impact	5.00	in·lb	ASTM D3029
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	95		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	325	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	306	°F	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	300	°F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	282	°F	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160 to 180	°F

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Injection	Nominal Value	Unit
Drying Time	2.0 to 4.0	hr
Rear Temperature	430 to 460	°F
Middle Temperature	441 to 469	°F
Front Temperature	450 to 500	°F
Nozzle Temperature	450 to 500	°F
Processing (Melt) Temp	430 to 460	°F
Mold Temperature	100 to 151	°F
Injection Rate	Slow-Moderate	
Back Pressure	20.0 to 50.0	psi
Cushion	0.200 to 0.500	in