

Polyfort RPP30EA18BK-MR GAPEX

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/cm ³	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/in ²	
73°F	3.2	ft·lb/in ²	
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 264 psi, Unannealed	300	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	282	°F	ISO 75-2/A

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