

Polyfort RPP30EA16NA-NA GAPEXNAT

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Polyfort RPP30EA16NA-NA GAPEXNAT is a Polypropylene Homopolymer Glass Fiber, 31% filled material and is typically used in Injection Molding applications. Features include: Chemically Coupled, Heat Stabilized, and Homopolymer.

General

Filler / Reinforcement	• Glass Fiber, 31% Filler by Weight
Additive	• Heat Stabilizer
Features	• Chemically Coupled • Heat Stabilized • Homopolymer
Uses	• Automotive Applications • Automotive Under the Hood
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.15		ASTM D792
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12000	psi	ASTM D638
Tensile Stress (Yield, 73°F)	12000	psi	ISO 527-2
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	611000	psi	ASTM D790
Flexural Modulus	754000	psi	ISO 178
Flexural Strength (Yield)	17000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.6	ft-lb/in	ASTM D256
Notched Izod Impact Strength			ISO 180
-40°F	2.6	ft-lb/in ²	
73°F	3.8	ft-lb/in ²	
Unnotched Izod Impact (73°F)	12	ft-lb/in	ASTM D4812
Gardner Impact	5.00	in-lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		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)	316	°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	302	°F	

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160 to 180	°F
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