Polyfort RPP40EA35UL-NA GAPEXNAT

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Polyfort RPP40EA35UL-NA GAPEXNAT is a Polypropylene Homopolymer Glass Fiber, 40% filled material. Features include: Chemically Coupled.

General

Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Chemically Coupled
Appearance	• Natural Color
Forms	• Pellets

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.23		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (73°F)	13500	psi	ASTM D638
Tensile Elongation (Break, 73°F)	3.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F	1.10E+6	psi	
Tangent : 73°F	1.12E+6	psi	
Flexural Strength (73°F)	20300	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F)	8.4	ft·lb/in	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	315	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	306	°F	
RTI Elec (0.06 in)	149	°F	UL 746B
RTI Imp (0.06 in)	149	°F	UL 746B
RTI Str (0.06 in)	149	°F	UL 746B
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

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	
Injection	**Nominal Value**	**Unit**
Back Pressure	20.0 to 50.0	psi
Cushion	0.200 to 0.500	in