Polyfort RPP25EA55HB-WHWHI

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Polyfort RPP25EA55HB-WHWHI is a Polypropylene Homopolymer Glass Fiber, 25% filled material and is typically used in Injection Molding applications. Features include: Chemically Coupled.

General

Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Features	• Chemically Coupled
Appearance	• White
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.3	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (73°F)	8400	psi	ASTM D638
Tensile Elongation (Break, 73°F)	3.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F	567000	psi	
Tangent : 73°F	585000	psi	
Flexural Strength (73°F)	12600	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	0.99	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F)	6.2	ft·lb/in	ASTM D4812
Gardner Impact	3.00	in·lb	ASTM D5420
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	110		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	309	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	288	°F	

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	

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