

Polyfort GPP30CN33HB-NAT

LyondellBasell Industries - Polypropylene

General Information

Product Description

Polyfort GPP30CN33HB-NAT is a Polypropylene, Unspecified Calcium Carbonate, 30% filled material and is typically used in Injection Molding applications. Features include: High Gloss.

General

Filler / Reinforcement	• Calcium Carbonate, 30% Filler by Weight
Features	• High Gloss
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3210	psi	ASTM D638
Tensile Elongation (Break)	85	%	ASTM D638
Flexural Modulus	231000	psi	ASTM D790
Flexural Strength (Yield)	5000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.1	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F)	15	ft·lb/in	ASTM D4812
Gardner Impact	230	in·lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	219	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	140	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	199	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	390 to 399	°F
Middle Temperature	399 to 410	°F
Front Temperature	410 to 421	°F
Nozzle Temperature	421 to 430	°F
Mold Temperature	115 to 140	°F
Back Pressure	20.0 to 50.0	psi
Screw Speed	100 to 150	rpm
Clamp Tonnage	2.0 to 3.0	tons/in ²