

Polyfort RPP20EA06HB-BK GAPEXBLK

LyondellBasell Industries - Polypropylene

General Information

Product Description

Polyfort RPP20EA06HB-BK GAPEXBLK is a Polypropylene, Unspecified Glass Fiber, 20% filled material and is typically used in Injection Molding applications. Features include: Creep Resistant, Homopolymer, and Low Shrinkage.

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Creep Resistant • Homopolymer • Low Shrinkage
Uses	• Automotive Applications
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5800	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	529000	psi	ASTM D790
Flexural Strength (Yield)	8600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.60	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F)	3.6	ft·lb/in	ASTM D4812
Gardner Impact (0.125 in)	2.00	in·lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	295	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	241	°F	ASTM D648

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