Technical Data Sheet

Polyfort RPP20EA06HB-BK GAPEXBLK

Polypropylene, Unspecified (PP, Unspecified)

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.

Processing Method	Injection Molding
Attribute	Good Creep Resistance; Homopolymer; Low Shrinkage
Forms	Pellets
Application	Automotive Applications
Filler/Reinforcement	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.04	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield	40	MPa	ASTM D638
Flexural Strength at Yield	59.3	MPa	ASTM D790
Flexural Modulus	3650	MPa	ASTM D790
Tensile Elongation at Break	2.5	%	ASTM D638
Impact			
Gardner Impact, (3.18 mm)	0.226	J	ASTM D3029
Unnotched Izod Impact, (23 °C)	190	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	32	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	72		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	116	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	146	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	71 to 82	°C
Nozzle Temperature	232 to 260	°C
Processing (Melt) Temp	221 to 238	°C
Front Temperature	232 to 260	°C
Middle Temperature	227 to 243	°C
Rear Temperature	221 to 238	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 to 0.345	MPa
Mold Temperature	38 to 66	°C
Cushion	5.08 to 12.7	mm