Technical Data Sheet

Polyfort RPP30EU02HB-BK GAPEXBLK

Polypropylene Copolymer

Product Description

Polyfort RPP30EU02HB-BK GAPEXBLK is a Polypropylene Copolymer Glass Fiber, 30% filled material and is typically used in Injection Molding applications. Features include: Chemically Coupled, and Impact Modified.

Processing Method	Injection Molding
Attribute	Chemically Coupled; Impact Modified
Forms	Pellets
Appearance	Black
Additive	Impact Modifier
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	7.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.12	g/cm³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	49.0	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	3920	MPa	ASTM D790
(23 °C, Tangent)	4010	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	6.0	%	ASTM D638
Flexural Strength, (23 °C)	74.5	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C)	2.03	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	830	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	240	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	91		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	138	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	154	°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