Technical Data Sheet

Polyfort FPP1A40BR103

Polypropylene, Homopolymer

Product Description

Polyfort FPP1A40BR103 is a Polypropylene Homopolymer Glass Fiber, 40% filled material and is typically used in Injection Molding applications. Features include: Homopolymer.

Processing Method	Injection Molding
Attribute	Homopolymer
Forms	Pellets
Filler/Reinforcement	Glass Fiber, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.24	g/cm³	ASTM D792
Mechanical			
Tensile Elongation at Yield, (23 °C, 3.18 mm)	5.0	%	ASTM D638
Tensile Strength at Yield, (23 °C, 3.18 mm)	55.2	MPa	ASTM D638
Flexural Modulus, (23 °C, 3.18 mm, Tangent)	5860	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C, 3.18 mm)	0.452	J	ASTM D3029
Notched Izod Impact, (23 °C, 3.18 mm)	64	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D, 3.18 mm)	81		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	138	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)	143	°C	ASTM D648
UL Information			
Flame Rating, (1.6 mm)	HB		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Screw Speed	20 to 60	rpm
Processing (Melt) Temp	199 to 243	°C
Front Temperature	199 to 243	°C
Middle Temperature	199 to 243	°C
Rear Temperature	199 to 243	°C
Injection Rate	Moderate	
Back Pressure	<0.345	MPa
Mold Temperature	16 to 66	°C
Cushion	6.35 to 12.7	mm