

Technical Data Sheet

Polyfort FPP1A40BR103



Polypropylene, Homopolymer

Product Description

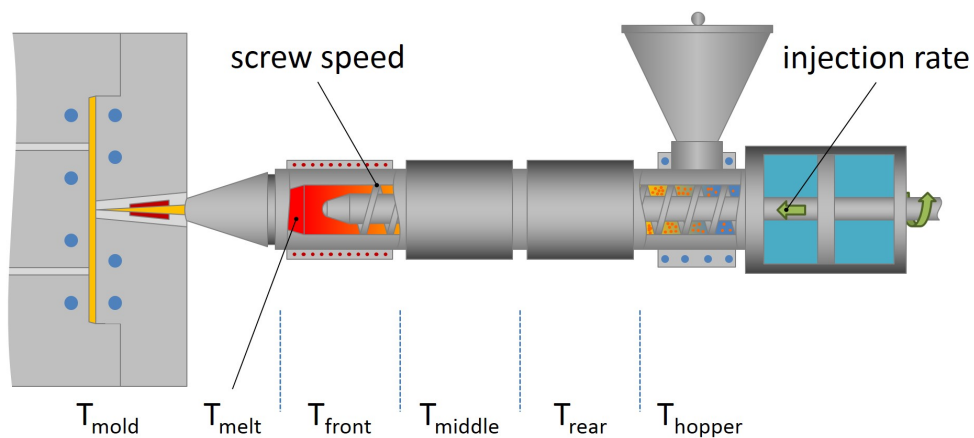
Polyfort FPP1A40BR103 is a Polypropylene Homopolymer Glass Fiber, 40% filled material and is typically used in Injection Molding applications. Features include: Homopolymer.

Regulatory Status

For regulatory compliance information, see FPP1A40BR103 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
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/cm ³	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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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