

POLYFORT® FPP 40 GFC SHI

Polypropylene Homopolymer

A. Schulman Europe

Message:

40% glass fiber reinforced high impact Homo Polypropylene

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H 40GFC HI		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
230°C/2.16 kg	2.00	cm ³ /10min	ISO 1133
230°C/5.0 kg	7.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7700	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	78.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	5.5	%	ISO 527-2/1A/5
Flexural Modulus ¹	6600	MPa	ISO 178
Flexural Stress ²			ISO 178
4.5% strain	120	MPa	ISO 178
5.5% strain ³	112	MPa	ISO 178
3.5% strain	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	ISO 179/1eA
23°C	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	55	kJ/m ²	ISO 179/1eU
23°C	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	154	°C	ISO 75-2/Bf
1.8 MPa, not annealed	147	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	163	°C	ISO 306/A50
--	120	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate	39	mm/min	ISO 3795

Additional Information

- 1.)
- Not for use in food contact applications2.)
- Not for use in medical or pharmaceutical applications

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Regrind	20	%
Processing (Melt) Temp	230 - 270	°C
Mold Temperature	40 - 70	°C

Injection instructions

*Drying normally not necessary.

NOTE

1. 2.0 mm/min
2. 2.0 mm/min
3. at break

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