

POLYFORT® FPP 40 GFC LE

Polypropylene Homopolymer

A. Schulman Europe

Message:

40 % glass fibre reinforced PP homopolymer, chemically coupled, low emission

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Low volatilization		
	Chemical coupling		
	Homopolymer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.00	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	147	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.3	%	ISO 527-2/1A/5
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	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m ²	ISO 179/1eU
23°C	52	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	147	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	166	°C	ISO 306/A120
--	141	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method

Additional Information

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

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