

POLYFORT® FPP 20 GFM HI HH

Polypropylene Homopolymer

A. Schulman Europe

Message:

20% milled glass fibre PP homopolymer, impact modified, heat stabilized

General Information			
Filler / Reinforcement	Glass fiber with embossing, 20% filler by weight		
Additive	Impact modifier heat stabilizer		
Features	Impact modification Homopolymer Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	3.50	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)	81.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	31.0	MPa	ISO 527-2/1A/50
Tensile Strain			
Yield	6.0	%	ISO 527-2/1A/50
Fracture	54	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	9.00	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	121	°C	ISO 75-2/Bf
1.8 MPa, not annealed	70.0	°C	ISO 75-2/Af
Vicat Softening Temperature	73.0	°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
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Additional Information			

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

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