

POLYFORT® FPP 20 GFC LE K1400

Polypropylene Homopolymer

A. Schulman Europe

Message:

20% glass fibre reinforced PP Homopolymer chemically coupled, high heat stabilized, low emission

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Low volatilization		
	Chemical coupling		
	Homopolymer		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	106	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	69.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	ISO 179/1eA
23°C	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	23	kJ/m ²	ISO 179/1eU
23°C	43	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	156	°C	ISO 75-2/Bf
1.8 MPa, not annealed	129	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	164	°C	ISO 306/A50
--	126	°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
Burning Rate (2.00 mm)	< 100	mm/min	ISO 3795
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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