

POLYFORT® FPP 30 GFC

Polypropylene Homopolymer

A. Schulman Europe

Message:

30% glass fiber reinforced PP-Homopolymer chemically coupled

General Information			
UL YellowCard	E86615-252215		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Chemical coupling		
	Homopolymer		
UL File Number	E86615		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	120	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	84.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus ¹	6000	MPa	ISO 178
Flexural Stress ²			ISO 178
3.6% strain ³	126	MPa	ISO 178
3.4% strain	128	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	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	ISO 179/1eU
23°C	48	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	159	°C	ISO 75-2/Bf
1.8 MPa, not annealed	145	°C	ISO 75-2/Af
Ball Pressure Test (145°C)	Pass		IEC 60695-10-2

Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		IEC 60695-11-10, -20
3.00 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	775	°C	IEC 60695-2-12
3.00 mm	775	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	800	°C	IEC 60695-2-13
3.00 mm	800	°C	IEC 60695-2-13

Additional Information

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

NOTE

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

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