Technical Data Sheet

Polyfort FPP 30GFC SN NAT NOM

Polypropylene, Homopolymer

Product Description

30% glass fibre reinforced PP homopolymer, chemically coupled, easy flow

Processing Method	Injection Molding
Attribute	Chemically Coupled; Good Flow; Homopolymer
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	17	cm³/10 min	ISO 1133
Density, (Method A)	1.09	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.6	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	85.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	6600	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	9.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	44	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	120	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	129	°C	ISO 306
(A (10N), 120 °C/h)	162	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	156	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	147	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*cm	IEC 60093
Surface Resistivity	>1.0E+15	ohm	IEC 60093

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C