Technical Data Sheet

Polyfort PPI MGB 20 RD U NAT

Polypropylene Copolymer

Product Description

Hybrid filled PP-Copolymer with low density and UV-Stabilization

Processing Method	Injection Molding
Filler/Reinforcement	Glass Bubble; Mineral

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	7.0	cm³/10 min	ISO 1133
Density, (Method A)	0.820	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	10.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	31	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	1.2	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	8.00	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1300	MPa	ISO 527-1
Flexural Stress	17	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	17	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	1.8	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	54	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	124	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	69.0	°C	ISO 75-2/B
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

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