Technical Data Sheet

Polyfort FPP 1006U-2146 GREYGRY

Polypropylene, Homopolymer

Product Description
20% talc filled PP Homo Compound, UV stabilized

Processing Method	Injection Molding
Attribute	UV Stabilized
Appearance	Colors Available
Filler/Reinforcement	Talc, 20%
Resin ID	PP T20 UV

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	14	cm³/10 min	ISO 1133
Density, (Method A)	1.05	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	28.0	MPa	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2900	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	5.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2600	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	45.0	MPa	ISO 178
(2.0 mm/min, 5.8%)	50.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	2.1	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	32	kJ/m²	ISO 179
Notched Izod Impact Strength, (23 °C, Type 1, Notch A)	2.3	kJ/m²	ISO 180
Unnotched Izod Impact Strength, (23 °C, Type 1)	24	kJ/m²	ISO 180
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	93.0	°C	ISO 306
(A (10N), 50 °C/h)	152	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	123	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	65.0	°C	ISO 75-2/A
Flammable			

Burning Rate			
(2.00 mm)	43	mm/min	FMVSS 302
(2.00 mm)	43	mm/min	ISO 3795

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