

Technical Data Sheet

Polyfort PPC MGB6 RD H1 BLK72025

Polypropylene Copolymer

Product Description

Hybrid filled low density PP-Copolymer with excellent scratch resistance, low emission and UV-stability especially for automotive interior parts

Processing Method Injection Molding

Attribute Heat Stabilized; Low Density; Low Emissions; Scratch Resistant

Filler/Reinforcement Glass Bubble; Mineral

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	10	cm ³ /10 min	ISO 1133
Density, (Method A)	0.900	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	23.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	110	%	ISO 527-2
Flexural Modulus	1640	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	5.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	15.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1700	MPa	ISO 527-1
Flexural Stress	29	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	2.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	70	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	25	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	60.0	°C	ISO 306
(A (10N), 50 °C/h)	148	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	87.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	55.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093

Flammable

Burning Rate

(2.00 mm)	70	mm/min	FMVSS 302
(2.00 mm)	70	mm/min	ISO 3795

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