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Technical Data Sheet

Polyfort PPH MT40 LE H2 BLK70400

Polypropylene, Homopolymer

Product Description

40% talc-filled PP-Homopolymercompound, low emission and low odour

Processing Method	Injection Molding
Attribute	Heat Stabilized; Homopolymer; Low Emissions; Low Fogging
Filler/Reinforcement	Talc, 40%
Resin ID	PP-H 40T LE

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	6.0	cm³/10 min	ISO 1133
Density, (Method A)	1.25	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.4	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	28.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	4000	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	3.0	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)	22	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	11	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	85.0	MPa	ISO 2039-1
Ball Pressure Test, (125 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	90.0	°C	ISO 306
(A (10N), 50 °C/h)	155	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	130	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	76.0	°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)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
UL Information			
Flame Rating			
(1.5 mm)	HB		UL 94
(3.0 mm)	HB		UL 94
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
Injection Rate	Moderate-Fast	
Mold Temperature	30 to 60	°C