

Technical Data Sheet

POLYFORT® PPH MT40 LE H2

Polypropylene Homopolymer
Engineering Plastics

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

General			
Filler / Reinforcement	• Talc, 40% Filler by Weight		
Features	• Heat Stabilized • Homopolymer	• Low Emissions • Low Fogging	• Low Odor
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PP-H 40T LE		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm ³	1.25 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	6.00 cm ³ /10min	6.00 cm ³ /10min	ISO 1133
Molding Shrinkage	0.60 to 0.90 %	0.60 to 0.90 %	ISO 294-4

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	580000 psi	4000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	4060 psi	28.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.4 %	3.4 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	0.86 ft·lb/in ²	1.8 kJ/m ²	
73°F (23°C)	1.4 ft·lb/in ²	3.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	5.2 ft·lb/in ²	11 kJ/m ²	
73°F (23°C)	10 ft·lb/in ²	22 kJ/m ²	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	12300 psi	85.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	266 °F	130 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	169 °F	76.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	311 °F	155 °C	ISO 306/A50
--	194 °F	90.0 °C	ISO 306/B50
Ball Pressure Test (257°F (125°C))	Pass	Pass	IEC 60695-10-2

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	IEC 60695-11-10,
0.12 in (3.0 mm)	HB	HB	-20

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Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 158 °F	40 to 70 °C

Injection Notes

Drying normally not necessary.

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

Notes

These are typical property values not to be construed as specification limits.