

Technical Data Sheet



POLYFORT® PPH MT 30 CA

Polypropylene Homopolymer
Engineering Plastics

Product Description

30% talc filled, constant antistatic PP-Homopolymer for injection molding

General

Filler / Reinforcement	• Talc, 30% Filler by Weight		
Additive	• Antistatic		
Features	• Permanent Antistatic		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.16 g/cm ³	1.16 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	28 cm ³ /10min	28 cm ³ /10min	ISO 1133
Molding Shrinkage	0.75 to 1.1 %	0.75 to 1.1 %	ISO 294-4

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	268000 psi	1850 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	3770 psi	26.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.8 %	5.8 %	ISO 527-2/1A/50
Flexural Modulus	294000 psi	2030 MPa	ISO 178
Flexural Stress	5220 psi	36.0 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	0.71 ft·lb/in ²	1.5 kJ/m ²	
73°F (23°C)	1.2 ft·lb/in ²	2.5 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	7.1 ft·lb/in ²	15 kJ/m ²	
73°F (23°C)	17 ft·lb/in ²	35 kJ/m ²	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	11300 psi	78.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	230 °F	110 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	140 °F	60.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	280 °F	138 °C	ISO 306/A50
--	167 °F	75.0 °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	< 5.6E+10 ohms	< 5.6E+10 ohms	IEC 60093
Volume Resistivity	< 2.5E+10 ohms·m	< 2.5E+10 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
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

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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
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.