



TDS Polyfort™ PPH GF40 E

Polypropylene Homopolymer

Product

40 % glass fibre reinforced PP-Homopolymer, chemically coupled

General

Material Status	Commercial: Active			
Availability	Africa & Middle East	Asia Pacific	Europe	
	Latin America	North America		
Filler / Reinforcement	Glass Fiber, 40% Filler by Weight			
Features	Chemically Coupled	Homopolymer		
Processing Method	Extrusion			
Resin ID (ISO 1043)	PP-GF			

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.22 g/cm ³	1.22g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.153 in ³ /10min	2.50 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.22E+6 psi	8400 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	13100 psi	90.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.7 %	2.7 %	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)	2.9 ft·lb/in ²	6.0 kJ/m ²	
73°F (23°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	19 ft·lb/in ²	40 kJ/m ²	
73°F (23°C)	20 ft·lb/in ²	42 kJ/m ²	

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Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	20900 psi	144 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	320°F	160°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	297°F	147°C	ISO 75-2/Af
Vicat Softening Temperature			
--	329°F	165°C	ISO 306/A50
--	275°F	135°C	ISO 306/B50

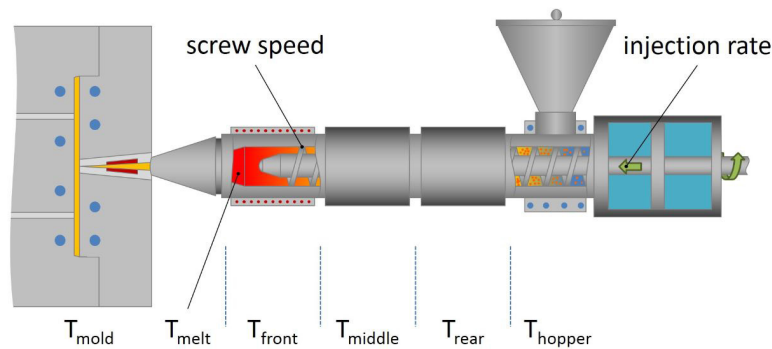
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms-cm	> 1.0E+13 ohms-cm	IEC 60093

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate (0.0787 in (2.00 mm))	<2.4 in/min	<60 mm/min	FMVSS
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

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