



TDS Polyfort™ FPP 20 GFM HI

Polypropylene Homopolymer

Product

20% grinded glass fibre reinforced impact modified PP-Homopolymer

General

Material Status	Commercial: Active		
Availability	Africa & Middle East Latin America	Asia Pacific North America	Europe
Filler / Reinforcement	Milled Glass Fiber, 20% Filler by Weight		
Processing Method	Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.214 in ³ /10min	3.50 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	406000 psi	2800 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	5080 psi	35.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	7.0 %	7.0 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	0.95 ft·lb/in ²	2.0 kJ/m ²	
73°F (23°C)	1.9 ft·lb/in ²	4.0 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)	18 ft·lb/in ²	38 kJ/m ²	

TDS Polyfort™ FPP 20 GFM HI

Polypropylene Homopolymer

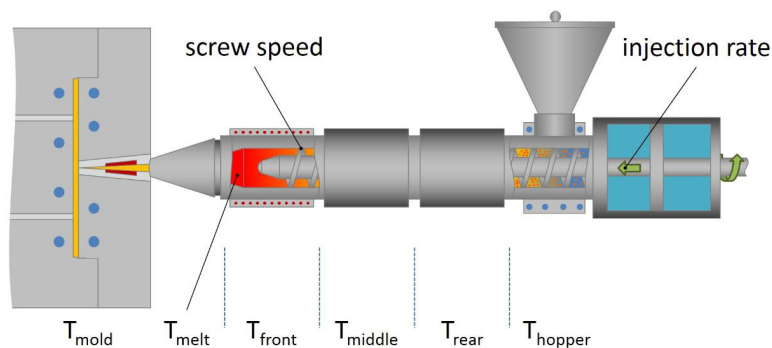
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	11700 psi	81.0 MPa	ISO 2039-1

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	158°F	70.0°C	ISO 75-2/Af
Vicat Softening Temperature			
--	307°F	153°C	ISO 306/A50
--	196°F	91.0°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))	< 3.9 in/min	< 1000 mm/min	ISO 3795
Flammability Classification	HB	HB	IEC 60695-11-10, -20

Additional Information
1) Not for use in food contact applications
2) Not for use in medical or pharmaceutical applications





TDS Polyfort™ FPP 20 GFM HI

Polypropylene Homopolymer

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