

### TDS Polyfort<sup>™</sup> FPP 20 GFM HI Polypropylene Homopolymer

Product							
20% grinded glass fibre reinforced impact modified PP-Homopolymer							
General							
Material Status	Comm	ercial: Active					
Availability	Africa & Latin A	& Middle East merica	Asia Pacific North America	Europe			
Filler / Reinforcement	Milled (	Glass Fiber, 20% Filler by '	Weight				
Processing Method	Injectio	n Molding					
Physical		Nominal Value (English)	Nominal Value (SI)	Test Method			
Density		1.04 g/cm <sup>3</sup>	1.04g/cm <sup>3</sup>	ISO 1183/A			
Melt Volume-Flow Rate (MVR) (230°C/	2.16 kg)	0.214 in <sup>3</sup> /10min	3.50 cm <sup>3</sup> /10min	ISO 1133			
			Nominal Value (SI)	Test Method			
Mechanical		Nominal Value (English)		1000 1000 1000			
		406000 psi	2800 MPa	ISO 527-2/1A/1			
Tensile Modulus				ISO 527-2/1A/1			
Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield)		406000 psi	2800 MPa				
Tensile Modulus Tensile Stress (Yield)		406000 psi 5080 psi	2800 MPa 35.0 MPa 7.0 %	ISO 527-2/1A/1 ISO 527-2/1A/50			
Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact		406000 psi 5080 psi 7.0 %	2800 MPa 35.0 MPa 7.0 %	ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50			
Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact		406000 psi 5080 psi 7.0 %	2800 MPa 35.0 MPa 7.0 %	ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method			
Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength		406000 psi 5080 psi 7.0 % Nominal Value (English)	2800 MPa 35.0 MPa 7.0 % Nominal Value (SI)	ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method			
Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength -22°F (-30°C)		406000 psi 5080 psi 7.0 % Nominal Value (English) 0.95 ft·lb/in <sup>2</sup>	2800 MPa 35.0 MPa 7.0 % Nominal Value (SI) 2.0 kJ/m <sup>2</sup>	ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method			
Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)		406000 psi 5080 psi 7.0 % Nominal Value (English) 0.95 ft·lb/in <sup>2</sup>	2800 MPa 35.0 MPa 7.0 % Nominal Value (SI) 2.0 kJ/m <sup>2</sup>	ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 <b>Test Method</b> ISO 179/1eA			

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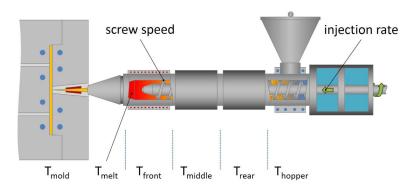
## TDS Polyfort<sup>™</sup> FPP 20 GFM HI Polypropylene Homopolymer

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∙cr	mIEC 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	НВ	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



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Injection	Nominal Value (Eng	lish) 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	

\*Drying normally not necessary

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