

TDS Polyfort™ FPP 30 GFC

Test Method

Polypropylene Homopolymer

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30% glass fiber reinforced PP-Homopolymer chemically coupled

General

Physical

Material Status Commercial: Active

Availability Africa & Middle East Asia Pacific Europe

Latin America North America

Nominal Value (English) Nominal Value (SI)

Filler / Reinforcement Glass Fiber, 30% filler by weight

Features Chemically Coupled Homopolymer

UL File Number E86615

Processing Method Injection Molding

TTYSICAL	Northila value (English)	Norminal value (OI)	163t Method
Density	1.11g/cm ³	1.11g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.305 in ³ /10min	5.00 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	943000 psi	6500 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	12200 psi	84.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8 %	2.8 %	ISO 527-2/1A/5
Flexural Modulus ¹	870000 psi	6000 MPa	ISO 178
Flexural Stress			ISO 178
3.4% Strain ¹	18600 psi	128 MPa	
3.6% Strain ²	18300 psi	126 MPa	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft·lb/in²	8.0 kJ/m ²	
73°F (23°C)	4.3 ft·lb/in²	9.0 kJ/m ²	

Notes

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¹ 0.079 in/min (2.0 mm/min)

² at Break



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Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	21 ft·lb/in²	45 kJ/m²	
73°F (23°C)	23 ft·lb/in²	48 kJ/m²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	17400 psi	120 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	318°F	159°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	266°F	145°C	ISO 75-2/Af
Vicat Softening Temperature			
	329°F	165°C	ISO 306/A50
	266°F	130°C	ISO 306/B50
Ball Pressure Test (293°F (145°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·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))	< 2.4 in/min	< 60 mm/min	FMVSS
Flammability Classification 0.06 in (1.5 mm)			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	

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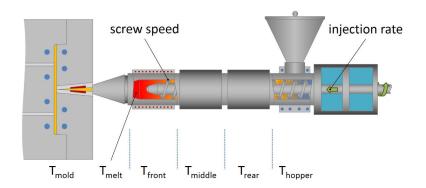
TDS Polyfort™ FPP 30 GFC

Polypropylene Homopolymer

Nominal Value (Eng	llish) Nominal Value (SI)	Test Method
		IEC 60695-2-12
1430°F	775°C	
1430°F	775°C	
		IEC 60695-2-13
1470°F	800°C	
1470°F	800°C	
	1430°F 1430°F 1470°F	1430°F 775°C 1470°F 800°C

Additional Information

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



Nominal Value (English) Nominal Value (SI)

Injection

 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

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