

TDS Polyfort™ FPP 20 GFC

Polypropylene Homopolymer

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20% chemical coupled glass fiber reinforced PP-homopolymer

General

Material Status Commercial: Active

Availability Africa & Middle East Asia Pacific Europe

Latin America North America

Filler / Reinforcement Glass Fiber, 20% filler by weight

Features Chemically Coupled Homopolymer

Automotive Specifications GM GMW15702 -024151 GM QK 003822 Color: Natural

PP-GF20

Processing Method Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05g/cm ³	1.05g/cm ³	ISO 1183/A

Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) 0.305 in³/10min 5.00 cm³/10min ISO 1133

Mechanical Nominal Value (English) Nominal Value (SI) Test Method

Tensile Modulus	667000 psi	4600 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	9860 psi	68.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	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)	3.3 ft·lb/in²	7.0 kJ/m ²	
73°F (23°C)	3.8 ft·lb/in²	8.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	12 ft·lb/in²	25 kJ/m²	
73°F (23°C)	14 ft·lb/in²	30 kJ/m²	

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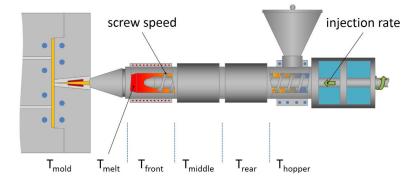


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Nominal Value (English)	Nominal Value (SI)	Test Method
14500 psi	100 MPa	ISO 2039-1
Nominal Value (English)	Nominal Value (SI)	Test Method
307°F	153°C	ISO 75-2/Bf
277°F	136°C	ISO 75-2/Af
320°F	160°C	ISO 306/A50
239°F	115°C	ISO 306/B50
Nominal Value (English)	Nominal Value (SI)	Test Method
> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
> 1.0E+13 ohms·cm	> 1.0E+13 ohms·cr	mIEC 60093
Nominal Value (English)	Nominal Value (SI)	Test Method
< 3.1 in/min	< 80 mm/min	FMVSS
НВ	НВ	IEC 60695-11-10, -20
	Nominal Value (English) 307°F 277°F 320°F 239°F Nominal Value (English) > 1.0E+15 ohms > 1.0E+13 ohms·cm Nominal Value (English) < 3.1 in/min	Nominal Value (English) Nominal Value (SI) 307°F 153°C 277°F 136°C 320°F 160°C 239°F 115°C Nominal Value (English) Nominal Value (SI) > 1.0E+15 ohms > 1.0E+15 ohms > 1.0E+13 ohms·cm > 1.0E+13 ohms·cr Nominal Value (English) Nominal Value (SI) < 3.1 in/min

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 (Englis	h) 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

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^{*}Drying normally not necessary