



TDS Polyfort™ FPP 30 GFC K1079

Polypropylene Homopolymer

Product

30 % glass fiber reinforced PP-Homopolymer, long term heat stabilized

General

Material Status	Commercial: Active		
Availability	Africa & Middle East Latin America	Asia Pacific North America	Europe
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight		
Features	Chemically Coupled	Heat Stabilized	Homopolymer
Automotive Specifications	FORD WSB-M4D732-A3 FORD WSK-M4D732-A1 FORD WSS-M4D854-B1	GM GMW15702 -024161 PP-GF30 GM QK 003824 Color: Black GM GMW15702 -024162 PP-GF30 Color: Black LW	
	IMDS ID 4862916 Color: Black		
Processing Method	Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.13 g/cm ³	1.13 g/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	972000 psi	6700 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	12300 psi	85.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/1A/5
Flexural Modulus ¹	870000 psi	6000 MPa	ISO 178
Flexural Stress ¹			ISO 178
3.4% Strain	18600 psi	128 MPa	
3.6% Strain ²	18300 psi	126 MPa	

Notes

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 Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft·lb/in ²	8.0 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)	21 ft·lb/in ²	45 kJ/m ²	
73°F (23°C)	23 ft·lb/in ²	48 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	18600 psi	128 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	293°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·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

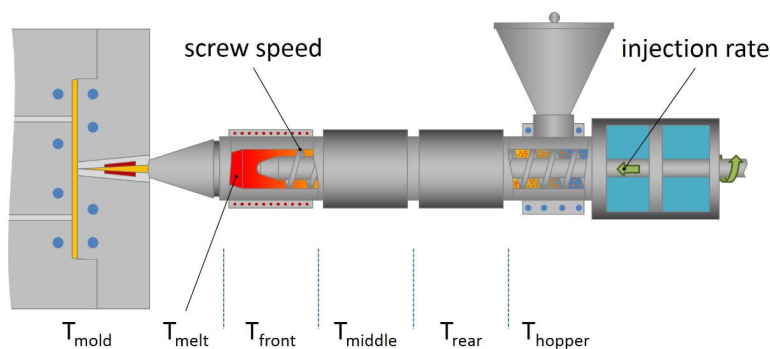
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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1380°F	750°C	
0.12 in (3.0 mm)	1380°F	750°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1430°F	775°C	
0.12 in (3.0 mm)	1430°F	775°C	

Additional Information

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



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%



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Injection	Nominal Value (English)	Nominal Value (SI)
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