



## TDS Polyfort™ FPP 22 T K1093

### Polypropylene Homopolymer

#### Product

22% talc filled PP-Homopolymer with long term heat stabilization

#### General

Material Status	Commercial: Active		
Availability	Africa & Middle East	Asia Pacific	Europe
	Latin America	North America	
Filler / Reinforcement	Talc, 22% Filler by Weight		
Features	Heat Stabilized		
Automotive Specifications	GM QK 003811 HL Color: Black		GM GMW16528P-PP-TD20
	FORD WSK-M4D729-A2 Color: Black		
	IMDS ID 4879256 Color: Black		
Processing Method	Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.07g/cm <sup>3</sup>	1.07g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.915 in <sup>3</sup> /10min	15.0 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	384000 psi	2650 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4210 psi	29.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0 %	5.0 %	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)	0.71 ft·lb/in <sup>2</sup>	1.5 kJ/m <sup>2</sup>	
73°F (23°C)	1.7 ft·lb/in <sup>2</sup>	3.5 kJ/m <sup>2</sup>	

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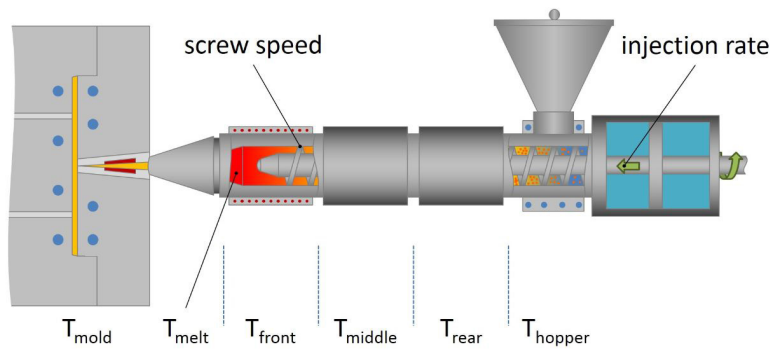
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Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	7.1 ft·lb/in <sup>2</sup>	15 kJ/m <sup>2</sup>	
73°F (23°C)	17 ft·lb/in <sup>2</sup>	35 kJ/m <sup>2</sup>	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	11600 psi	80.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	248°F	120°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	167°F	75.0°C	ISO 75-2/Af
Vicat Softening Temperature			
--	304°F	151°C	ISO 306/A50
--	187°F	86.0°C	ISO 306/B50
Ball Pressure Test (257°F (125°C))	Pass	Pass	IEC 60695-10-2
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate	1.9 in/min	48 mm/min	ISO 3795
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)	1340°F	725°C	
0.12 in (3.0 mm)	1340°F	725°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1380°F	750°C	
0.12 in (3.0 mm)	1380°F	750°C	

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## 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%
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