

TDS Polyfort™ FPP 40 T

Polypropylene Homopolymer

Product

40% talc filled PP-Homopolymer

General

Material Status Commercial: Active

Availability Africa & Middle East Asia Pacific Europe

Latin America North America

Filler / Reinforcement Talc, 40% Filler by Weight

Features Homopolymer

Automotive Specifications FORD WSK-M4D643-A2

UL File Number E86615

Processing Method Injection Molding

Physical	Nominal Value (English) N	ominal Value (SI)	Test Method
Density	1.28 g/cm ³	1.28g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.366 in ³ /10min	6.0 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	580000 psi	4000 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4060 psi	28.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.5 %	2.5 %	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/in²	1.5 kJ/m ²	
73°F (23°C)	1.2 ft·lb/in ²	2.5 kJ/m ²	

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Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength	<u> </u>		ISO 179/1eU
-22°F (-30°C)	4.8 ft·lb/in²	10 kJ/m²	
73°F (23°C)	8.6 ft·lb/in²	18 kJ/m²	
Hardness	Nominal Value (English)		Test Method
Ball Indentation Hardness (H 358/30)	12300 psi	85.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	244°F	118°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	156°F	69.0°C	ISO 75-2/Af
Vicat Softening Temperature			
	304°F	151°C	ISO 306/A50
	198°F	92.0°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	<3.9 in/min	<100 mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	НВ	НВ	
0.12 in (3.0 mm)	НВ	НВ	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1430°F	775°C	
0.12 in (3.0 mm)	1430°F	775°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1470°F	800°C	
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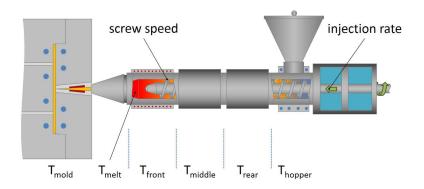


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Additional Information

- 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

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