



TDS Polyfort™ FPP 40 TF

Polypropylene Homopolymer

Product

40% talc filled PP homopolymer, easy flow

General

Material Status	Commercial: Active		
Availability	Africa & Middle East Latin America	Asia Pacific North America	Europe
Filler / Reinforcement	Talc, 40% Filler by Weight		
Processing Method	Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm ³	1.25g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.854 in ³ /10min	14.0 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	638000 psi	4400 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4350 psi	30.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.4 %	2.4 %	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)	0.76 ft·lb/in ²	1.6 kJ/m ²	
73°F (23°C)	1.2 ft·lb/in ²	2.6 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	4.0 ft·lb/in ²	8.5 kJ/m ²	
73°F (23°C)	5.9 ft·lb/in ²	13 kJ/m ²	



TDS Polyfort™ FPP 40 TF

Polypropylene Homopolymer

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	12300 psi	85.0 MPa	ISO 2039-1

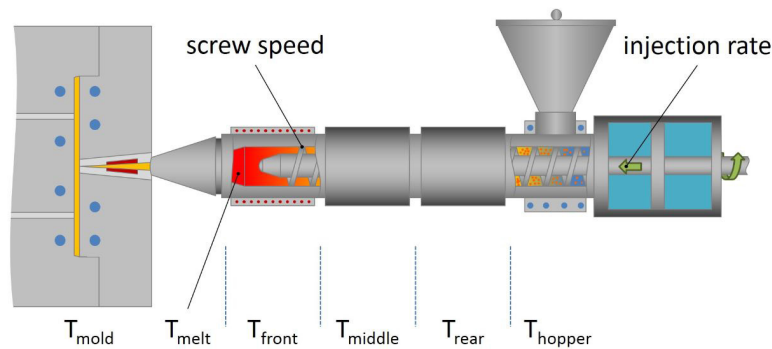
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	241°F	116°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	167°F	75.0°C	ISO 75-2/Af
Vicat Softening Temperature			
--	210°F	99°C	ISO 306/A50
--	205°F	96.0°C	ISO 306/B50

Additional Information

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

TDS Polyfort™ FPP 40 TF

Polypropylene Homopolymer



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