

TDS Polyfort™ FPP 20 T

Polypropylene Homopolymer

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20% talc filled PP-Homopolymer

General

Material Status Commercial: Active

Availability Africa & Middle East Asia Pacific Europe

Latin America North America

Filler / Reinforcement Talc, 20% Filler by Weight

UL File Number E86615

Processing Method Injection Molding

Resin ID (ISO 1043) PP-T

Physical	Nominal Value (English) No	minal Value (SI)	Test Method
Density	1.06 g/cm ³	1.06 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.671 in ³ /10min	11.00 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4790 psi	33.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	6.0 %	6.0 %	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)	0.95 ft·lb/in²	2.0 kJ/m²	
73°F (23°C)	1.9 ft·lb/in²	4.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	6.7 ft·lb/in²	14 kJ/m²	
73°F (23°C)	18 ft·lb/in²	38 kJ/m²	

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Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	11900 psi	82.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	235°F	113°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	149°F	65.0°C	ISO 75-2/Af
Vicat Softening Temperature			
	306°F	152°C	ISO 306/A50
	183°F	84.0°C	ISO 306/B50
	D	Pass	IEC 60695-10-2
Ball Pressure Test (257°F (125°C))	Pass	FdSS	ILO 00093-10-2
Ball Pressure Test (257°F (125°C)) Flammability	Nominal Value (English)		Test Method
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method ISO 3795
Flammability Burning Rate	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Burning Rate Flammability Classification	Nominal Value (English) < 3.9 in/min	Nominal Value (SI) < 100 mm/min	Test Method ISO 3795
Flammability Burning Rate Flammability Classification 0.06 in (1.5 mm)	Nominal Value (English) < 3.9 in/min	Nominal Value (SI) < 100 mm/min	Test Method ISO 3795
Flammability Burning Rate Flammability Classification 0.06 in (1.5 mm) 0.12 in (3.0 mm)	Nominal Value (English) < 3.9 in/min	Nominal Value (SI) < 100 mm/min	Test Method ISO 3795 IEC 60695-11-10, -20
Flammability Burning Rate Flammability Classification 0.06 in (1.5 mm) 0.12 in (3.0 mm) Glow Wire Flammability Index	Nominal Value (English) < 3.9 in/min HB HB	Nominal Value (SI) < 100 mm/min HB HB	Test Method ISO 3795 IEC 60695-11-10, -20
Flammability Burning Rate Flammability Classification 0.06 in (1.5 mm) 0.12 in (3.0 mm) Glow Wire Flammability Index 0.06 in (1.5 mm)	Nominal Value (English) < 3.9 in/min HB HB 1340°F	Nominal Value (SI) < 100 mm/min HB HB 725°C	Test Method ISO 3795 IEC 60695-11-10, -20
Flammability Burning Rate Flammability Classification 0.06 in (1.5 mm) 0.12 in (3.0 mm) Glow Wire Flammability Index 0.06 in (1.5 mm) 0.12 in (3.0 mm)	Nominal Value (English) < 3.9 in/min HB HB 1340°F	Nominal Value (SI) < 100 mm/min HB HB 725°C	Test Method ISO 3795 IEC 60695-11-10, -20 IEC 60695-2-12

Additional Information

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

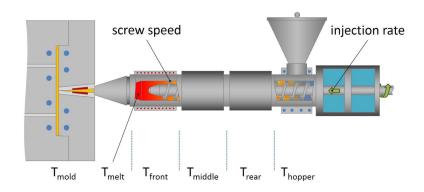
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Injection	Nominal Value (English) Nominal	Value (SI)

Drying Temperature176°F80°CDrying Time2.0 to 3.0 hr2.0 to 3.0 hrSuggested Max Regrind20%20%Processing (Melt) Temp446 to 518°F230 to 270°CMold Temperature104 to 158°F40 to 70°C

Injection Notes

*Drying normally not necessary

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