شركة ناتبت شولمان للمركبات البلاستيكية المتخصصة
Natpet Schulman Specialty Plastic Compounds

TDS Polyfort™ FIPP 20 T

Polypropylene Copolymer

Product

20% talc filled PP-Copolymer

General

Material Status	Commercial: Active		
Availability	Africa & Middle East Latin America	Asia Pacific North America	Europe
Filler / Reinforcement	Talc, 20% Filler by Weight		
Processing Method	Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05g/cm³	1.05g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.427 in³/10min	7.00 cm³/10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	3630 psi	25.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0 %	4.0 %	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)	1.9 ft·lb/in²	4.0 kJ/m²	
73°F (23°C)	3.1 ft·lb/in²	6.5 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	17 ft·lb/in²	36 kJ/m²	
73°F (23°C)	No Break	No Break	

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Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	7830 psi	54.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	217°F	103°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	147°F	64°C	ISO 75-2/Af
Vicat Softening Temperature			
--	293°F	145°C	ISO 306/A50
--	158°F	70.0°C	ISO 306/B50

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate (0.0787 in (2.00 mm))	< 1.4 in/min	< 36 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)	1290°F	700°C	
0.08 in (2.0 mm)	1290°F	700°C	
0.12 in (3.0 mm)	1290°F	700°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1340°F	725°C	
0.08 in (2.0 mm)	1340°F	725°C	
0.12 in (3.0 mm)	1340°F	725°C	

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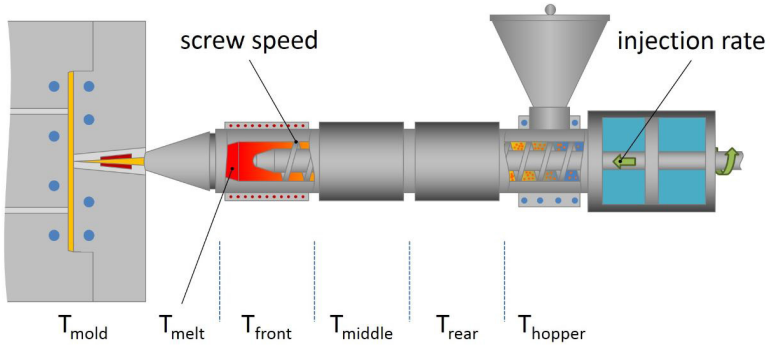

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176°F	80°C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20%	20%
Processing (Melt) Temp	446 to 518°F	230 to 270°C
Mold Temperature	104 to 158°F	40 to 70°C

Injection Notes

*Drying normally not necessary