

HiFill® PP TM20 FR NAT

Polypropylene

Techmer Engineered Solutions

Message:

HiFill® PP TM20 FR NAT is a Polypropylene product filled with talc. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
Filler / Reinforcement	Talc		
Additive	Flame Retardant		
Features	Flame Retardant		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.1	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	24.5	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	42.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	40	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
1.8 MPa, Unannealed	60.6	°C	
Melting Temperature	72.8	°C	
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.57 mm	V-0		

3.18 mm

5VA

NOTE

1. Method A (Short-Time)

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