

HiFill® HDPE TM20

High Density Polyethylene

Techmer Engineered Solutions

Message:

HiFill® HDPE TM20 is a High Density Polyethylene product filled with 20% talc. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	26.2	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Flexural Strength	379	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	32	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	62.8	°C	
1.8 MPa, Unannealed	46.1	°C	
Melting Temperature	135	°C	
CLTE - Flow	8.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	22	kV/mm	ASTM D149
NOTE			

1. Method A (Short-Time)

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