

HiFill® HDPE TM30

High Density Polyethylene

Techmer Engineered Solutions

Message:

HiFill® HDPE TM30 is a High Density Polyethylene product filled with 30% talc. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Talc,30% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (24 hr)	0.025	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	30.3	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	98.9	°C	
1.8 MPa, Unannealed	65.6	°C	
Melting Temperature	135	°C	
CLTE - Flow	8.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
NOTE			

1. Method A (Short-Time)

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