

HiFill® HDPE TM5

 Techmer Polymer Modifiers - *High Density Polyethylene*
General Information
General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Talc, 5.0% Filler by Weight
Appearance	<ul style="list-style-type: none"> Colors Available
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	0.990		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.022	in/in	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Break)	3500	psi	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	110000	psi	ASTM D790
Flexural Strength	3700	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	0.50	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	6.0	ft·lb/in	ASTM D4812
Hardness			
Nominal Value Unit Test Method			
Rockwell Hardness (R-Scale)	30		ASTM D785
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	140	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	110	°F	ASTM D648
CLTE - Flow	5.2E-5	in/in/°F	ASTM D696
Electrical			
Nominal Value Unit Test Method			
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	600	V/mil	ASTM D149

