

HiFill® PA6 AF Colors

Techmer Polymer Modifiers - *Polyamide 6*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Aramid Fiber
Additive	• Heat Stabilizer • Lubricant
Features	• Heat Stabilized • Lubricated
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12500	psi	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	440000	psi	ASTM D790
Flexural Strength	16700	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	352	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	149	°F	ASTM D648
CLTE - Flow	4.6E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	460	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	V-2		UL 94

