

HiFill FR® PA4/6 FR HS

Techmer Polymer Modifiers - Polyamide 46

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer
Features	• Flame Retardant • Heat Stabilized
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	8700	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	360000	psi	ASTM D790
Flexural Strength	16000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.5	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	90		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	520	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648
CLTE - Flow	4.0E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	500	V/mil	ASTM D149
Flammability			
Flame Rating (0.06 in)	V-0		UL 94
Additional Information			
TPCI #	8277150		

