

# HiFill FR® PA4/6 GF15 FR HS L

Polyamide 46

Techmer Engineered Solutions

## Message:

HiFill FR® PA4/6 GF15 FR HS L is a Polyamide 46 (Nylon 46) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

Heat Stabilizer

Lubricated

General Information				
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight			
Additive	Heat Stabilizer Lubricant			
Features	Flame Retardant Heat Stabilized Lubricated			
Appearance	Colors Available			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.47	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80	--	%	ASTM D955
Water Absorption (24 hr)	2.0	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	131	82.7	MPa	ASTM D638
Tensile Elongation (Break)	2.7	5.5	%	ASTM D638
Flexural Modulus	4830	2960	MPa	ASTM D790
Flexural Strength	179	110	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	96	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	290	--	°C	ASTM D648
CLTE - Flow	4.0E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method

Volume Resistivity	1.0E+14	--	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	24	--	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	V-0	--		UL 94
NOTE				
1.	Method A (Short-Time)			

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