

# HiFill® PA6 HS L

Polyamide 6  
Techmer Engineered Solutions

Message:

HiFill® PA6 HS L is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Heat Stabilizer  
Lubricated

General Information			
Additive	Heat Stabilizer		
	Lubricant		
Features	Heat Stabilized		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.2	%	ASTM D955
Water Absorption (24 hr)	1.6	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	178	°C	
1.8 MPa, Unannealed	65.0	°C	
CLTE - Flow	8.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	18	kV/mm	ASTM D149
Additional Information	Nominal Value		

TPCI #	7190102	
Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Rear Temperature	249 to 282	°C
Middle Temperature	249 to 282	°C
Front Temperature	249 to 282	°C
NOTE		
1.	Method A (Short-Time)	

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Recommended distributors for this material


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