

HiFill® PA6 IM 835 HS L

Polyamide 6
Techmer Engineered Solutions

Message:

HiFill® PA6 IM 835 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
Impact Modified
Impact Resistant
Lubricated

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
	Lubricant		
Features	Heat Stabilized		
	High Impact Resistance		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.6	%	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	250	%	ASTM D638
Flexural Modulus	689	MPa	ASTM D790
Flexural Strength	58.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	No Break		ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	166	°C	
1.8 MPa, Unannealed	51.7	°C	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+13	ohms·cm	ASTM D257
Dielectric Strength ¹	17	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	254 to 291	°C	
Middle Temperature	254 to 291	°C	
Front Temperature	254 to 291	°C	
Processing (Melt) Temp	238 to 277	°C	
Mold Temperature	65.6 to 82.2	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	Method A (Short-Time)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

