HiFill® PA6 IM 435 HS L

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill® PA6 IM 435 HS L is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America. Typical application: Low Temperature Applications.
Characteristics include:
Flame Rated
Heat Stabilizer
Impact Modified
Impact Resistant
Lubricated

General Information			
Additive	Heat Stabilizer Impact Modifier Lubricant		
Features	Heat Stabilized High Impact Resistance Lubricated		
Uses	Low Temperature Applications		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	70		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	35.9 to 51.7	MPa	ASTM D638
Tensile Elongation (Break)	250 to 350	%	ASTM D638
Flexural Modulus	469 to 689	MPa	ASTM D790
Flexural Strength	41.4 to 58.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	No Break		
23°C, 3.18 mm	No Break		
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
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
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)		

Recommended distributors for this material

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