

HiFill® PA6 LE BK

Polyamide 6
Techmer Engineered Solutions

Message:

HiFill® PA6 LE BK is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications.

Characteristics include:

- Flame Rated
- Fast Molding Cycle
- Good Processability
- Lubricated
- Nucleated

General Information				
Additive		Lubricant Nucleating Agent		
Features		Fast Molding Cycle Good Processability Low Extractables Lubricated Nucleated		
Agency Ratings		FDA Unspecified Rating		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.13	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.1	--	%	ASTM D955
Water Absorption (24 hr)	2.8	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	119	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	90.3	49.0	MPa	ASTM D638
Tensile Elongation (Break)	70	85	%	ASTM D638
Flexural Modulus	2830	1100	MPa	ASTM D790
Flexural Strength	115	46.2	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48	180	J/m	ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	178	--	°C	
1.8 MPa, Unannealed	76.7	--	°C	
CLTE - Flow	8.3E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	--	ohms·cm	ASTM D257
Dielectric Strength ¹	18	--	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.749 mm)	V-0	--		UL 94
Additional Information	Dry	Conditioned		
TPCI #	7964102	--		
NOTE				
1.	Method A (Short-Time)			

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