

HiFill® PA6 L N MB

Polyamide 6
Techmer Engineered Solutions

Message:

HiFill® PA6 L N MB is a polyamide 6 (nylon 6) product. It can be processed by injection molding and is available in North America.

Features include:

- flame retardant/rated flame
- nucleation
- Good processability
- Rapid Prototyping Cycle
- Lubrication

General Information				
UL YellowCard		E253782-101773882		
Additive		Nucleating agent		
		Lubricant		
Features		Nucleated		
		Workability, good		
		Fast molding cycle		
		Lubrication		
Appearance		Available colors		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.13	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow				ASTM D955
--	--	1.1	%	ASTM D955
3.18 mm	1.1	--	%	ASTM D955
Water Absorption (24 hr)	2.8	2.8	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
--	--	119		ASTM D785
Class r	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, not annealed	178	178	°C	ASTM D648
1.8 MPa, not annealed	76.7	76.7	°C	ASTM D648
CLTE - Flow	8.3E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	13	ohms · cm	ASTM D257
Dielectric Strength				ASTM D149
--	--	18	kV/mm	ASTM D149
-- ¹	18	--	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
--	--	V-2		UL 94
0.75 mm	V-2	--		UL 94
Additional Information	Dry	Conditioned		
TPCI #	7964102	--		
NOTE				

1. Method A (short time)

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