# HiFill® PA6/6 GB36 IM1

## Polyamide 66

## **Techmer Engineered Solutions**

#### Message:

HiFill®PA6/6 GB36 IM1 is a polyamide 66 (nylon 66) product containing 36% glass beads. It can be processed by injection molding and is available in North America. Features include: flame retardant/rated flame Impact modification Impact resistance

General Information				
Filler / Reinforcement	Micro glass bead, 36% packing by weight			
Additive	Impact modifier			
Features	Impact resistance, high			
Appearance	Available colors			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.40	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	1.8	%	ASTM D955	
Water Absorption (24 hr)	0.85	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	122		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Break)	103	MPa	ASTM D638	
Tensile Elongation (Break)	2.0	%	ASTM D638	
Flexural Modulus	6890	MPa	ASTM D790	
Flexural Strength	145	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256	
Unnotched Izod Impact (3.18 mm)	640	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	210	°C	ASTM D648	
1.8 MPa, not annealed	138	°C	ASTM D648	
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696	
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity	1.0E+15	ohms•cm	ASTM D257	
Dielectric Strength <sup>1</sup>	17	kV/mm	ASTM D149	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating (1.50 mm)	НВ		UL 94	

Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.12	%	
Rear Temperature	282 - 293	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	277 - 288	°C	
Nozzle Temperature	282 - 293	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	54.4 - 93.3	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			

Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well ventedMoisture Content, as received: Product is packaged at 0.2% or less.Recomended Max Moisture: 0.12% down to 0.08%

NOTE

1.

Method A (short time)

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