

Amilan™ U127G X07 Nylon 6

TECHNICAL DATA

Product Description

GF35%

Uses

- Appliance Components
- Automotive Applications
- Construction Applications
- Electrical/Electronic Applications
- Office Automation Equipment
- Sporting Goods
- White Goods & Small Appliances

Processing Method

- Injection Molding

ISO Designation

- >PA6-I-GF35<

Type

- Nylon6/High impact

ASTM & ISO Properties

Physical	Dry	Water Absorption	Unit	Test Method
Density (23°C)	1.35	--	g/cm³	ISO 1183
Molding Shrinkage - Flow ¹ (3.00 mm)	0.20 to 0.80	--	%	Internal Method
Water Absorption ²				ISO 62
24 hr, 23°C	0.60	--	%	
Saturation, 23°C	5.0	--	%	
Mechanical	Dry	Water Absorption	Unit	Test Method
Tensile Strength (23°C)	150	100	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.5	7.0	%	ISO 527-2
Flexural Modulus (23°C)	7900	4400	MPa	ISO 178
Flexural Stress (23°C)	210	120	MPa	ISO 178
Taber Abrasion Resistance				ISO 9352
1000 Cycles	13	--	mg	
Impact	Dry	Water Absorption	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	30.0	40.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
23°C	120.0	160.0	kJ/m²	
Hardness	Dry	Water Absorption	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 23°C	115	--		
Thermal	Dry	Water Absorption	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	DSC
Coefficient of Linear Thermal Expansion	4	--	cm³-5/cm/°C	ISO 11359-2
Additional Information				
Dry	Water absorption Moisture Content 1.6%			

Notes¹ 80x80x3mm² in water**Remarks for Handling****Safety Precautions**

1. Refer to the Material Safety data sheet for AMILAN™ before use.
2. During drying and molding of AMILAN™, volatile components which can irritate eyes, nose, and throat may be released. When such heat treatment is performed, appropriate local ventilation measures should be taken.
3. Sweep up and dispose of spilled pellets to prevent slipping.
4. Don't pile stocks too high in order to avoid injury caused by the product falling.

Care in Handling

1. The figures described herein are representative values of natural colors obtained based on the specific test method, and are NOT guaranteed values.
2. For our colored products, the figures described herein will vary depending on the type and amount of pigment, dye, and additive used.
3. The information contained herein is currently information we can reasonably obtain. The information may be revised without notice.
4. The information contained herein, including but not limited to application examples, does NOT represent, warrant or guarantee the quality or safety of your products. When using our products for your or third party's products, in consideration of various relevant laws and regulations, industrial property rights, product standards, self-regulatory standards, etc., please conduct product test etc. and confirm the quality or safety by yourself.
5. The basis that show the combustion resistance described herein is only the evaluation result in the test performed on the test piece prepared by the procedure in accordance with each specific standard. It can NOT be applied to the risk assessment in an actual fire. Note: For UL certification values, please refer to the Yellow card issued by UL (File No. E41797).
6. When using with medical devices, food packages, safety instruments or toys for infant, and so on, consult us about the concrete application and usage beforehand by all means. Do NOT use our products for any medical internal implantation.
7. Regarding export of our products and exports of products incorporating our products, please comply with relevant laws and regulations such as foreign exchange and foreign trade laws.
8. Under the chemical substance management system of each country, the chemical substance used in our products is regulated, and it may be necessary to apply separately or it may not be possible to import or export. If you are an exporter or importer of our products, please contact us for regulatory compliance in your country.
9. Refer to Safety Data Sheet for this our product before use.
10. We make NO representation, warranty or guarantee whether expressed or implied, in respect of fitness for a particular purpose and safety of our products for your products. You will be responsible for ascertaining the suitability of our products for your purpose and safety.
11. During drying and molding, volatile components which can irritate eyes, nose, and throat may be released. When such heat treatment is performed, appropriate local ventilation measures should be taken.
12. Sweep up and dispose of spilled pellets to prevent slipping.
13. Don't pile stocks too high in order to avoid injury caused by the product falling.