

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 R-Scale, 23°C	115	--		ISO 2039-2
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	--	cm ³ -5/cm/°C	ISO 11359-2

Additional Information

Dry Water absorption Moisture Content 1.6%

Toray Industries, Inc.

