

Amilan™ S133

Nylon 6

TECHNICAL DATA

Product Description

Super high impact, Nano-Alloy

Uses

- Connectors
- Luggage
- Sporting Goods
- Fiber Optic Cable
- Rubber Replacement

Processing Method

- Extrusion
- Injection Molding
- Sheet Extrusion

ISO Designation

- >PA6-I<

Type

- Nylon6/High impact

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.07	g/cm ³	ISO 1183
Molding Shrinkage ¹ (3.00 mm)	1.00 to 1.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	45	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 50	%	ISO 527-2
Flexural Modulus (23°C)	1500	MPa	ISO 178
Flexural Stress (23°C)	60	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	105.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	85	°C	ISO 75-2/B
1.8 MPa, Unannealed	50	°C	ISO 75-2/A
Melting Temperature	225	°C	DSC

Notes

¹ 80x80x3mm

Toray Industries, Inc.

