

Amilan™ U118G-40

Nylon 6

TECHNICAL DATA

Product Description

High impact

Uses • Automotive Applications • Safety Equipment

Processing Method • Injection Molding

ISO Designation • >PA6-I-GF40<

Type • Nylon6/High impact

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹ (3.00 mm)	0.30 to 0.80	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	185	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	26.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature	225	°C	DSC
Coefficient of Linear Thermal Expansion	2	cm ³ -5/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·m	IEC 60093

Notes

¹ 80x80x3mm

Toray Industries, Inc.

