

Amilan™ EA1R21G-33

Nylon 6

TECHNICAL DATA

Product Description

Recycled 20%, GF33%

Recycled Content

- Yes, 20%

Uses

- Construction Applications
- Household Goods
- Power/Other Tools

Processing Method

- Injection Molding

ISO Designation

- >PA6-GF33<

Type

- Nylon6/Recycled

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.38	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.50 to 0.80	%	
Flow : 3.00 mm	0.20 to 0.40	%	
Water Absorption ² (24 hr, 23°C)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	192	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.8	%	ISO 527-2
Flexural Modulus (23°C)	8900	MPa	ISO 178
Flexural Stress (23°C)	266	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18.6	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	224	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Melting Temperature	225	°C	DSC
Specific Heat	1600	J/kg/°C	
Thermal Conductivity	0.40	W/m/K	
Coefficient of Linear Thermal Expansion	2 to 3	cm ³ -5/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (Equivalent)	HB		Internal Method

Notes

¹ 80x80x3mm

² in water

³ UL94

Toray Industries, Inc.

