

Amilan® EA1R21G33

Polyamide 6
Toray Resin Company

Message:

Amilan® EA1R21G33 is a Polyamide 6 (Nylon 6) product filled with 33% glass fiber. It is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Eco-Friendly/Green

General Information			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Recycled Content	Yes,20%		
Part Marking Code	>PA6-GF33<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.38	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.50 to 0.80	%	
Flow : 3.00 mm ²	0.20 to 0.40	%	
Water Absorption (23°C, 24 hr)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (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)	19	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
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
CLTE - Flow	2.0E-5 to 3.0E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1600	J/kg/°C	
Thermal Conductivity	0.40	W/m/K	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		

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Recommended distributors for this material

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