Amilan™ EA1R21G-33

Toray Industries, Inc. - Polyamide 6

General Information			
Product Description			
Recycled 20%, GF33%			
General			
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Recycled Content	• Yes, 20%		
Features	• Chemical Resistant	• High Strength	
Uses	• Construction Applications	• Household Goods	• Power/Other Tools
Processing Method	• Injection Molding		
ISO Designation	• >PA6-GF33<		

Properties [1]			
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (73°F)	1.38	g/cm³	ISO 1183
Molding Shrinkage [2]			Internal Method
Across Flow : 0.118 in	0.50 to 0.80	%	
Flow : 0.118 in	0.20 to 0.40	%	
Water Absorption [3] (24 hr, 73°F)	1.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (73°F)	27800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.8	%	ISO 527-2
Flexural Modulus (73°F)	1.29E+6	psi	ISO 178
Flexural Stress (73°F)	38600	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	8.9	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	435	°F	ISO 75-2/B
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	419	°F	
Melting Temperature	437	°F	DSC
Specific Heat	0.382	Btu/lb/°F	
Thermal Conductivity	2.8	Btu·in/hr/ft²/°F	
Coefficient of Linear Thermal Expansion	2 to 3	cm^-5/cm/°C	ISO 11359-2
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [4] (Equivalent)	HB		Internal Method

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 80x80x3mm

[3] in water

[4] UL94