

Amilan® CM3211G35UB1

Polyamide 66
Toray Resin Company

Message:

Amilan® CM3211G35UB1 is a Polyamide 66 (Nylon 66) product filled with 35% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Part Marking Code	>PA66/PA610-GF35<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.36	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	0.40	%	ASTM D570, ISO 62
Saturation, 23°C	3.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale, 23°C	93		
R-Scale, 23°C	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
-40°C	280	MPa	
23°C	195	MPa	
80°C	120	MPa	
Tensile Strain			ISO 527-2
Break, -40°C	3.0	%	
Break, 23°C	3.0	%	
Break, 80°C	5.0	%	
Flexural Modulus			ISO 178
-40°C	11000	MPa	
23°C	9500	MPa	
80°C	4800	MPa	
Flexural Stress			ISO 178
-40°C	370	MPa	
23°C	290	MPa	
80°C	160	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	10	kJ/m ²	
23°C	14	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	89	kJ/m ²	
23°C	95	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	228	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	°C	ISO 75-2/A
Melting Temperature	265	°C	DSC
CLTE - Flow	2.0E-5 to 3.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.42	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		

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