

Amilan® CM2001

Polyamide 610
Toray Resin Company

Message:
Amilan® CM2001 is a Polyamide 610 (Nylon 610) product. It is available in Asia Pacific, Europe, or North America.

General Information				
Part Marking Code		>PA610<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow				Internal Method
1.00 mm ¹	0.30 to 0.70	--	%	
3.00 mm ²	0.70 to 1.3	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.30	--	%	
Saturation, 23°C	4.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	116	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	85.0	--	MPa	
23°C	55.0	40.0	MPa	
80°C	25.0	--	MPa	
Tensile Strain (Break, 23°C)	50	50	%	ISO 527-2
Flexural Modulus				ISO 178
-40°C	2300	--	MPa	
23°C	2000	900	MPa	
80°C	500	--	MPa	
Flexural Stress (23°C)	95.0	55.0	MPa	ISO 178
Compressive Stress (23°C)	65.0	--	MPa	ISO 604
Shear Strength (23°C)	50.0	45.0	MPa	ASTM D732
Taber Abrasion Resistance (1000 Cycles)	4.00	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	180	--	°C	ISO 75-2/B
Melting Temperature	225	--	°C	DSC
CLTE - Flow	1.2E-4	--	cm/cm/°C	ISO 11359-2
Specific Heat	1900	--	J/kg/°C	
Thermal Conductivity	0.25	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13 to 1.0E+14	--	ohms·cm	IEC 60093
Dielectric Constant ³				IEC 60250
23°C, 50 Hz	3.90	--		
23°C, 1 kHz	3.60	--		
23°C, 1 MHz	3.10	--		
Dissipation Factor ⁴				IEC 60250
23°C, 50 Hz	0.040	--		
23°C, 1 kHz	0.040	--		
23°C, 1 MHz	0.020	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability	Self-Extinguishing	--		UL 94
NOTE				
1.	80x80x1mm			
2.	80x80x3mm			
3.	60% RH			
4.	60% RH			

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