

Amilan® CM2006

Polyamide 610

Toray Resin Company

Message:

Amilan® CM2006 is a Polyamide 610 (Nylon 610) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: heat resistant.

General Information				
Features	Good Thermal Stability			
Part Marking Code	>PA610<			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.08	--	g/cm ³	ISO 1183
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 (23°C)	60.0	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	50	50	%	ISO 527-2
Flexural Modulus (23°C)	2000	--	MPa	ISO 178
Flexural Stress (23°C)	95.0	--	MPa	ISO 178
Shear Strength (23°C)	50.0	--	MPa	ASTM D732
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
Flammability	Dry	Conditioned	Unit	Test Method
Flammability	Self-Extinguishing	--		UL 94

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