

Amilan™ CM2006

Nylon 610

TECHNICAL DATA

Product Description

Heat stabilized

Uses

- Fasteners

Processing Method

- Injection Molding

ISO Designation

- >PA610<

Type

- Nylon610

ASTM & ISO Properties

Physical	Dry	Water Absorption	Unit	Test Method
Density (23°C)	1.08	--	g/cm ³	ISO 1183
Water Absorption ¹				ISO 62
24 hr, 23°C	0.30	--	%	
Saturation, 23°C	4.0	--	%	
Mechanical	Dry	Water Absorption	Unit	Test Method
Tensile Strength (23°C)	60	--	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	--	MPa	ISO 178
Shear Strength (23°C)	50	--	MPa	ASTM D732
Impact	Dry	Water Absorption	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	4.0	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
23°C	No Break	No Break		
Hardness	Dry	Water Absorption	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 23°C	116	--		
Thermal	Dry	Water Absorption	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	180	--	°C	
Melting Temperature	225	--	°C	DSC
Specific Heat	1900	--	J/kg/°C	
Thermal Conductivity	0.25	--	W/m/K	
Coefficient of Linear Thermal Expansion	12	--	cm ⁻⁵ /cm/°C	ISO 11359-2
Electrical	Dry	Water Absorption	Unit	Test Method
Volume Resistivity	1.0E+11 to 1.0E+12	--	ohms·m	IEC 60093
Additional Information				
Dry	Water absorption Moisture Content 1.5%			

Toray Industries, Inc.

