

Amilan™ CM1061

Toray Industries, Inc. - Polyamide 6

General Information

Product Description

High viscosity

General

Features	• Chemical Resistant		
Uses	• Automotive Applications	• Bottles	• Tanks
	• Blow Molding Applications	• Fuel Lines	• Tubing
Processing Method	• Blow Molding		
ISO Designation	• >PA6<		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F)	1.13	--	g/cm ³	ISO 1183
Water Absorption ² (24 hr, 73°F)	1.8	--	%	ISO 62
Water Absorption ² Saturation, 73°F	11	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°F	16000	14500	psi	
73°F	11600	5080	psi	
176°F	4350	2900	psi	
Tensile Strain				ISO 527-2
Break, -40°F	3.0	3.0	%	
Break, 73°F	> 40	> 50	%	
Break, 176°F	> 50	> 50	%	
Flexural Modulus (73°F)	377000	116000	psi	ISO 178
Flexural Stress (73°F)	14500	5800	psi	ISO 178
Taber Abrasion Resistance				ISO 9352
1000 Cycles	3.00 to 4.00	--	mg	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength				ISO 179
73°F	2.9	20	ft-lb/in ²	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 73°F	119	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	360	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	149	--	°F	
Melting Temperature	437	--	°F	DSC
Coefficient of Linear Thermal Expansion	8	--	cm ³ -5/cm ³ °C	ISO 11359-2

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Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14 to 1.0E+15	1.0E+11 to 1.0E+12	ohms·cm	IEC 60093
Electric Strength	510	--	V/mil	IEC 60243-1
Dielectric Constant				IEC 60250
73°F, 1 MHz	3.40	4.50		
Dissipation Factor (73°F, 1 MHz)	0.030	0.13		IEC 60250
Additional Information				
Dry	Water absorption Moisture Content 3.5%			

Notes

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

² in water