

Amilan® CM1061

Polyamide 6
Toray Resin Company

Message:

Amilan® CM1061 is a Polyamide 6 (Nylon 6) product. It can be processed by blow molding and is available in Asia Pacific, Europe, or North America.
Primary characteristic: high viscosity.

General Information				
Features		High Viscosity		
Uses		Blow Molding Applications		
Processing Method		Blow Molding		
Part Marking Code		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	1.8	--	%	
Saturation, 23°C	11	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	119	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	110	100	MPa	
23°C	80.0	35.0	MPa	
80°C	30.0	20.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	3.0	3.0	%	
Break, 23°C	40	50	%	
Break, 80°C	50	50	%	
Flexural Modulus (23°C)	2600	800	MPa	ISO 178
Flexural Stress (23°C)	100	40.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	3.00 to 4.00	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (-40°C)	6.0	42	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	182	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	DSC

CLTE - Flow	8.0E-5	--	cm/cm/°C	ISO 11359-2
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	20	--	kV/mm	IEC 60243-1
Dielectric Constant ¹				IEC 60250
23°C, 50 Hz	3.40	4.50		
23°C, 1 kHz	0.0300	0.130		
NOTE				

1. 60% RH

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

