

Amilan® CM1026

Polyamide 6
Toray Resin Company

Message:

Amilan® CM1026 is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, or North America. Typical application: Automotive.
Characteristics include:
Flame Rated
Heat Resistant
Medium Viscosity

General Information				
UL YellowCard		E41797-233442		
Features		Good Thermal Stability Medium Viscosity		
Part Marking Code		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow				Internal Method
1.00 mm ¹	0.40 to 0.90	--	%	
3.00 mm ²	0.80 to 1.6	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.8	--	%	
Saturation, 23°C	11	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 80°C	80	--		
R-Scale, 23°C	119	90		
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	25.0	20.0	MPa	
Tensile Strain				ISO 527-2
Yield, 23°C	1.5	--	%	
Break, 23°C	50	50	%	
Flexural Modulus				ISO 178
-40°C	3800	3600	MPa	
23°C	2600	800	MPa	
80°C	700	300	MPa	
Flexural Stress				ISO 178

-40°C	135	125	MPa	
23°C	110	40.0	MPa	
80°C	40.0	25.0	MPa	
Compressive Stress (23°C)	80.0	--	MPa	ISO 604
Shear Strength (23°C)	70.0	65.0	MPa	ASTM D732
Taber Abrasion Resistance (1000 Cycles)	3.00 to 4.00	--	mg	ISO 9352
Coefficient of Friction - vs. Metal ³	0.150 to 0.200	--		Suzuki Method
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	4.0	--	kJ/m ²	
23°C	6.0	40	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-40°C	No Break	--		
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	182	--	°C	ISO 75-2/B
Melting Temperature	225	--	°C	DSC
CLTE - Flow	8.0E-5	--	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	1.0E+11 to 1.0E+12	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
NOTE				
1.	80x80x1mm			
2.	80x80x3mm			
3.	Without Lubrication			

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