

Amilan™ CM3301 L

Nylon 66

TECHNICAL DATA

Product Description

High toughness

Uses

- Appliance Components
- Construction Applications
- Electrical/Electronic Applications
- Gears
- Office Automation Equipment
- Sporting Goods
- White Goods & Small Appliances

Processing Method

- Injection Molding

ISO Designation

- >PA66<

Type

- Nylon66/Unreinforced

ASTM & ISO Properties

Physical	Dry	Water Absorption	Unit	Test Method
Density (23°C)	1.14	--	g/cm³	ISO 1183
Water Absorption ¹				ISO 62
24 hr, 23°C	1.2	--	%	
Saturation, 23°C	8.0	--	%	
Mechanical	Dry	Water Absorption	Unit	Test Method
Tensile Strength (23°C)	75	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	37	> 50	%	ISO 527-2
Flexural Modulus (23°C)	2600	--	MPa	ISO 178
Flexural Stress (23°C)	105	--	MPa	ISO 178
Compressive Stress (23°C)	100	--	MPa	ISO 604
Impact	Dry	Water Absorption	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	4.0	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
-40°C	No Break	--		
23°C	No Break	--		
Hardness	Dry	Water Absorption	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 23°C	118	99		
Thermal	Dry	Water Absorption	Unit	Test Method
Melting Temperature	245	--	°C	DSC
Electrical	Dry	Water Absorption	Unit	Test Method
Volume Resistivity	1.0E+12 to 1.0E+13	1.0E+10 to 1.0E+11	ohms·m	IEC 60093
Additional Information				
Dry	Water Absorption Moisture Content 2.5%			

Toray Industries, Inc.

