Amilan® CM3006G-15

PA66-GF15 — Toray Industries, Inc.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Thermal conductivity of melt	**0.36**	W/(m K)	-
Spec. heat capacity of melt	**2000**	J/(kg K)	-

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Strength	**110 / 90**	MPa	ISO 527
Strain at break	**2 / 4.5**	%	ISO 527
Flexural modulus, 23°C	**5800 / 3700**	MPa	ISO 178
Flexural modulus	**2800 / 2200**	MPa	ISO 178
Flexural modulus temperature	**80**	°C	-
Charpy impact strength, +23°C	**30 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6 / -**	kJ/m²	ISO 179/1eA
Rockwell hardness	**R 120**	-	ISO 2039-2

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**265 / ***	°C	ISO 11357-1/-3
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.6 / -**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**400 / -**	E-4	IEC 62631-2-1
Volume resistivity	**1E13 / 1E11**	Ohm*m	IEC 62631-3-1
Electric strength	**- / 20**	kV/mm	IEC 60243-1

Other properties	dry / cond	Unit	Test Standard
Water absorption	**7.2 / ***	%	Sim. to ISO 62
Density	**1260 / -**	kg/m³	ISO 1183

Characteristics

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa