



Nylon Resin
Amilan™

Basic physical properties

MENU

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- Technical data(Porperty)
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CM3004-V0

Injection molding / Flame retardant / Unreinforced / (Flame retardant, anti-halogen)

Property			Test Method	Units	CM3004-V0	
					Dry	2.2% water
Physical property	Reinforcing Material Content		-	wt%	-	
	Specific Gravity		1138	-	1190	-
	Water Absorption	24hrs, in 23 °C water	62	%	1.1	-
23 °C in water		7.5			-	
Mechanical property	Tensile Yield Strength	-40 °C	527-1,-2	MPa	-	-
		23 °C			85	65
		80 °C			45	-
	Elongation at Break	-40 °C	527-1,-2	%	-	-
		23 °C			7.5	7.5
		80 °C			-	-
	Flexural Strength	-40 °C	178	MPa	170	-
		23 °C			125	70
		80 °C			65	-
	Flexural Modulus	-40 °C	178	GPa	-	-
		23 °C			3.5	1.5
		80 °C			1.2	-
	Charpy Impact	v-notched	-40 °C	179	kJ/m ²	4.5
v-notched		23 °C	4.5			13.0
unnotched		23 °C	179			kJ/m ²
Rockwell Hardness		23 °C	2039-2	R-scale	120	-
Taber Abrasion		-	-	mg/1000 cycles	9~10	-
Heat property	Melting Point		DSC Method	°C	265	-
	Coef. of Linear Thermal Expansion		11359	× 10 ⁻⁵ /°C	-	-
	Heat Deflection Temp	0.46MPa	75-2	°C	244	-
		1.86MPa			-	-
UL-94 Flame Class		UL-94	-	-	V-0(1/64")	
Electrical property	Volume Resistivity		IEC 93	Ω •m	10 ¹³	-
	Dielectric Strength(3mmt)		IEC 243-1	MV/m	28	-
	Dielectric Constant	1MHz	IEC 250	-	5.2	-
	Dissipation Factor	1MHz	IEC 250	-	0.07	-
	Arc Resistance Tungsten Electrode		UL-746A	sec.	127	-
	IEC tracking Index(CTI)		UL-746B	-	600<	-
Molding property	Mold Shirinkage 3mm Thickness	Horizontal	TORAY Method	%	0.6~0.9	
		Vertical			1.0~1.6	

- ABS Resin
TOYOLAC™
- Nylon Resin
Amilan™
- PBT Resin
TORAYCON™
- PPS Resin
TORELINA™
- LCP Resin
SIVERAS™
- Super EP
TI Polymer™
- Polyolefin Foam
TORAYPEF™

Notes: These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

