



Nylon Resin
Amilan™

Basic physical properties

MENU

- Introduction
- List of Grade
- Technical data(Grade)
- Technical data(Porproperty)
- Topics

CONTENTS

- Catalogue download
- Press release
- Overseas branch
- Related links
- Contact
- Inquiry

CM3004G-30
Injection molding / Flame retardant / GF reinforced / (GF30%, flame retardant, halogen)

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

Property			Test Method	Units	CM3004G-30		
					Dry	1.0%water	
Physical property	Reinforcing Material Content		-	wt%	30		
	Specific Gravity		1138	-	1590	-	
	Water Absorption	24hrs, in 23 °C water	62	%	0.6	-	
		23 °C in water			4.0	-	
Mechanical property	Tensile Yield Strength	-40 °C	527-1,-2	MPa	190	-	
		23 °C			165	135	
		80 °C			110	-	
	Elongation at Break	-40 °C	527-1,-2	%	2.5	-	
		23 °C			3.0	3.0	
		80 °C			4.5	-	
	Flexural Strength	-40 °C	178	MPa	275	-	
		23 °C			250	200	
		80 °C			150	-	
	Flexural Modulus	-40 °C	178	GPa	10.2	-	
		23 °C			9.3	6.5	
		80 °C			5.5	-	
	Charpy Impact	v-notched	-40 °C	179	kJ/m ²	7.0	-
		v-notched	23 °C			9.5	14.0
unnotched		23 °C	179			kJ/m ²	65
Rockwell Hardness		23 °C	2039-2	R-scale	121	-	
Taber Abrasion		-	-	mg/1000 cycles	26	-	
Heat property	Melting Point		DSC Method	°C	265	-	
	Coef. of Linear Thermal Expansion		11359	× 10 ⁻⁵ /°C	2	-	
	Heat Deflection Temp	0.46MPa	75-2	°C	-	-	
		1.86MPa			251	-	
UL-94 Flame Class		UL-94	-	-	V-0(1/64")		
Electrical property	Volume Resistivity		IEC 93	Ω·m	10 ¹³	10 ¹¹	
	Dielectric Strength(3mmt)		IEC 243-1	MV/m	38	33	
	Dielectric Constant	1MHz	IEC 250	-	4.0	-	
	Dissipation Factor	1MHz	IEC 250	-	0.01	-	
	Arc Resistance Tungsten Electrode		UL-746A	sec.	70	-	
	IEC tracking Index(CTI)		UL-746B	-	200	-	
Molding property	Mold Shrinkage 3mm Thickness	Horizontal	TORAY Method	%	0.2~0.5		
		Vertical			0.6~0.9		

Notes:These values are typical data for this product under specific test conditions and notintended for use as limiting specifications.

