



Nylon Resin
Amilan™

Basic physical properties

MENU

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- Technical data(Porperty)
- Topics

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CM1014-V0

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

Property			Test Method ISO	Units	CM1014-V0		
					Dry	3.0% water	
Physical property	Glass Fiber Contents		-	wt%	-		
	Specific Gravity		1138	kg/m ³	1180	-	
	Water Absorption	24hrs, in 23 °C water	62	%	1.7	-	
23 °C in water		9.5			-		
Mechanical property	Tensile Yield Strength	-40 °C	527-1,-2	MPa	-	-	
		23 °C			80	45	
		80 °C			40	-	
	Elongation at Break	-40 °C	527-1,-2	%	-	-	
		23 °C			7.5	37.0	
		80 °C			55.5	-	
	Flexural Strength	-40 °C	178	MPa	150	-	
		23 °C			115	45	
		80 °C			55	-	
	Flexural Modulus	-40 °C	178	GPa	-	-	
		23 °C			3.5	1.2	
		80 °C			1.0	-	
Sharp Impact	V-notched	-40 °C	179	kJ/m ²	3.5	-	
	V-notched	23 °C			4.5	21.5	
	Unnotched	23 °C			120	No Break	
Rockwell Hardness		23 °C	2039-2	R-scale	120	-	
Taper Abrasion				mg/1000time	5~6	-	
Heat property	Melting Point		DSC Method	°C	225	-	
	Coef of Linear Thermal Expansion		11359	×10 ⁻⁵ /°C	-	-	
	Heat Deflection Temp.	0.46MPa	75-2	°C	207	-	
		1.86MPa			-	-	
Flame Class		UL-94	-	V-0(1/32")			
Electrical property	Volume Resistivity		IEC 93	Ω·m	10 ¹³	-	
	Dielectric Strength		IEC 243-1	MV/m	30	-	
	Dielectric Constant 23 °C, 60%RH		1MHz	IEC 250	-	5.2	-
	Dissipation Factor 23 °C, 60%RH		1MHz	IEC 250	-	0.08	-
	Arc Resistance Tungsten Electrode		UL-746A	sec.	120	-	
	IEC tracking Index(CTI)		UL-746B	-	600<	-	
Molding property	Mold Shrinkage 3mm Thickness	Horizontal	Toray Method	%	0.4~0.8		
		Vertical			1.0~1.3		

- 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.

