

CM3004G-30

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

Property				Test Method ISO	Units	CM3004G-30	
						Dry	1.0%water
Physical property	Reinforcing Material Content			—	wt%	30	
	Specific Gravity			1138	—	1590	—
	Water	24hrs, in 23 °C water		62	%	0.6	—
	Absorption	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	70
	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	—

	23 °C, 60%RH					
	Dissipation Factor 23 °C, 60%RH	1MHz	IEC 250	-	0.01	-
	Arc Resistance Tungsten Electrode		UL-746A	sec.	70	-
	IEC tracking Index(CTI)		UL-746B	-	200	-
Molding property	Mold Shirinkage 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 not intended for use as limiting specifications.

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