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	-
	Sharpy Impact	V-notched	-40°C	179	kJ/m^2	3.5	-
		V-notched	23°C			4.5	21.5
		Unnotched	23°C	179	kJ/m^2	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 Shirinkage 3mm Thickness	Horizontal	Toray Method	%	0.4~0.8	
		Vertical			1.0~1.3	

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