■ Typical Properties of TORELINA™

Property			Unit	Test method	Glass Fiber + Inorganic filler 65% reinforced grade
					A360M
Specific Gravity			–	D792	1.89
Water Absorption (23℃, 24hr in water)			%	D570	0.02
Mechanical					
Tensile Strength		23℃	MPa	D638	150
Elongation		23℃	%	D638	2.4
Flexural Strength		23℃	MPa	D790	200
Flexural Modulus		23℃	GPa	D790	17.3
Shear Strength		23℃	MPa	D732	60
Charpy impact strength	V-notched	23℃	J/m	D256	115
	Unnotched	23℃	KJ/㎡		25
Rockwell Hardness			R scale	D785	123
Taper abrasion			mg/1000 times	D1044	70
Coefficient of fricton	vs. steel		-	D1894	0.3
Limit PV value			KJ/㎡•hr	TORAY	810
Thermal					
Melting Point			℃	DSC	278
Heat Deformation Temperature		1.82MPa	℃	D648	>260
Linear Thermal Expansion		Machine direction	$X10^{-5}$/K	D696	1.6
		Transverse direction			2.3
Flammability			-	UL94	V-0
Electrical					
Volume resistivity			Ω•m	D257	10^{14}
Dielectric strength			MV/m	D149	16
Dielectric constant		10^6Hz	-	D150	4.9
Dissipation factor		10^6Hz	-	D150	0.002

Moldability				
Mold shrinkage (3mm)	Machine direction	%	TORAY	0.22
	Transverse direction			0.71
Mininum injection pressure (1/8″ thick)		MPa•G	TORAY	-
Bar flow (320℃, 98MPa, 1mm thick)		$X10^{-3}$/m	TORAY	-

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