

Property	Test Condition	Test Method ISO	Units	Reinforced
				High stiffness, GF55%
				1101GM55BL
				>PBT+P-GF55<
Physical property				
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.07
Density	23℃	ISO 1183	kg/m ³	1790
Mechanical property				
Tensile strength	23℃	ISO 527-1,2	MPa	165
Elongation at Break	23℃	ISO 527-1,2	%	1.5
Tensile Modulus	23℃	ISO 527-1,2	GPa	-
Flexural Strength	23℃	ISO 178	MPa	265
Flexural Modulus	23℃	ISO 178	GPa	17
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-
Coefficient of friction	Vs metal	-	-	-
Rockwell Hardness	23℃	ISO 2039-2	R Scale	R119
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	10
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	68
Heat property				
Coef of Linear Thermal Expansion	-30~100℃	ISO 11359-2	×10 ⁻⁵ /℃	-
Coef of Linear Thermal Expansion	Machine Direction	ISO 11359-2	×10 ⁻⁵ /K	2.6
Coef of Linear Thermal Expansion	Transverse Direction	ISO 11359-2	×10 ⁻⁵ /K	3.2
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	221
Heat Deflection Temp High Load	1.82MPa	ISO 75-1,2	℃	210
Flammability		UL94	rank/thickness m mt	HB equivalent
Electrical property				
Volume Resistivity		IEC 60093	Ω · m	-
Dielectric Strength		IEC 60243-1	MV/m	23
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	-
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	-
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	-
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	-
CTI		UL 746A	UL Index	-
Arc resistance	W electrode	IEC 60950	sec	-
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.25
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.53
Bar Flow	250℃,93MPa,1mmt	Toray Method	×10 ⁻³ m	-

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

