

Property	Test Condition	Test Method ISO	Units	Reinforced
				Low warpage, (GF+GS)40%
				1151W X01
				>PBT+P-(GF+GS)40<
Physical property				
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.08
Density	23℃	ISO 1183	kg/m ³	1580
Mechanical property				
Tensile strength	23℃	ISO 527-1,2	MPa	110
Elongation at Break	23℃	ISO 527-1,2	%	3
Tensile Modulus	23℃	ISO 527-1,2	GPa	10.5
Flexural Strength	23℃	ISO 178	MPa	183
Flexural Modulus	23℃	ISO 178	GPa	10
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.15
Coefficient of friction	Vs metal	-	-	0.19
Rockwell Hardness	23℃	ISO 2039-2	R Scale	M65
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	8
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	55
Heat property				
Coef of Linear Thermal Expansion	-30~100℃	ISO 11359-2	×10 ⁻⁵ /℃	3.8
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	220
Heat Deflection Temp High Load	1.82MPa	ISO 75-1,2	℃	205
Flammability		UL94	rank/thickness m mt	HBEquivalent
Electrical property				
Volume Resistivity		IEC 60093	Ω · m	4×10 ¹⁴
Dielectric Strength		IEC 60243-1	MV/m	19
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	3.5
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	3.5
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	0.002
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	0.02
Arc resistance	W electrode	IEC 60950	sec	120
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mm t	Toray Method	%	0.3
Mold shrinkage(Transverse Direction)	80×80×3mm t	Toray Method	%	0.7
Bar Flow	250℃,93MPa,1mm t	Toray Method	×10 ⁻³ m	85

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

