

Property	Test Condition	Test Method ISO	Units	Non-halogen, Flame retardant reinforced	
				GF30%、V-0	
				EC44G-30	
				>PBT-P-GF30 FR(40)<	
Physical property					
Water Absorption	24hrs. in 23°C water	ISO62	%	0.07	
Density	23°C	ISO1183	kg/m ³	1650	
Mechanical property					
Tensile strength	23°C	ISO527-1,2	MPa	110	
Elongation at Break	23°C	ISO527-1,2	%	1.3	
Tensile Modulus	23°C	ISO527-1,2	GPa	11.5	
Flexural Strength	23°C	ISO178	MPa	160	
Flexural Modulus	23°C	ISO178	GPa	10.8	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	
Coefficient of friction	Vs metal	-	-	-	
Rockwell Hardness	23°C	ISO2039-2	R Scale	-	
Charpy Impact Strength (V-notched)	23°C	ISO179	kJ/m ²	7	
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m ²	-	
Heat property					
Coef of Linear Thermal Expansion	-30~100°C	ISO11359-2	×10 ⁻⁵ /°C	4	
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	°C	220	
Heat Deflection Temp High Load	1.82MPa	ISO75-1,2	°C	205	
Flammability		UL94	rank/thickness m mt	V0(1/32")	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	1.3×10 ¹⁵	
Dielectric Strength		IEC60243-1	MV/m	26	
Dielectric Constant	23°C、60%RH、50Hz	IEC 60250	-	-	
Dielectric Constant	23°C、60%RH、1KHz	IEC 60250	-	-	
Dissipation Factor	23°C、60%RH、50Hz	IEC 60250	-	-	
Dissipation Factor	23°C、60%RH、1MHz	IEC 60250	-	-	
Arc resistance	W electrode	IEC60950	sec	200	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.8	
Bar Flow	250°C,93MPa,1mmt	Toray Method	×10 ⁻³ m	110	

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

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