

Property	Test Condition	Test Method ISO	Units	Flame retardant unreinforced	
				Unreinforced, V-0	
				1494X02	
				>PBT FR(17)<	
Physical property					
Water Absorption	24hrs. in 23°C water	ISO62	%	0.08	
Density	23°C	ISO1183	kg/m ³	1430	
Mechanical property					
Tensile strength	23°C	ISO527-1,2	MPa	64	
Elongation at Break	23°C	ISO527-1,2	%	8	
Tensile Modulus	23°C	ISO527-1,2	GPa	3	
Flexural Strength	23°C	ISO178	MPa	105	
Flexural Modulus	23°C	ISO178	GPa	2.9	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.14	
Coefficient of friction	Vs metal	-	-	0.18	
Rockwell Hardness	23°C	ISO2039-2	R Scale	M82	
Charpy Impact Strength (V-notched)	23°C	ISO179	kJ/m ²	2.5	
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m ²	66	
Heat property					
Coef of Linear Thermal Expansion	-30~100°C	ISO11359-2	×10 ⁻⁵ /°C	9	
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	°C	136	
Heat Deflection Temp High Load	1.82MPa	ISO75-1,2	°C	64	
Flammability		UL94	rank/thickness m mt	V0(1/64")	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	2×10 ¹⁴	
Dielectric Strength		IEC60243-1	MV/m	26	
Dielectric Constant	23°C, 60%RH, 50Hz	IEC 60250	-	3.4	
Dielectric Constant	23°C, 60%RH, 1KHz	IEC 60250	-	3.4	
Dissipation Factor	23°C, 60%RH, 50Hz	IEC 60250	-	0.001	
Dissipation Factor	23°C, 60%RH, 1MHz	IEC 60250	-	0.02	
CTI		UL 746A	UL Index	2	
Arc resistance	W electrode	IEC60950	sec	70	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	1.5	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	2	
Bar Flow	250°C,93MPa,1mmt	Toray Method	×10 ⁻³ m	97	

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

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