

Performance

Thermal Performance	Methods	Conditions	Values	Units
Glass Transition Temp.	ASTM D7426	10°C/min	58.8	°C
Melting Temp.	ASTM D7426	10°C/min	162.6	°C
Decomposition Temp. @5%	ASTM E2402	20°C/min	≥374	°C
Heat Distortion Temp.	ASTM D648	0.45MPa	53	°C
Vicat Softening Temp.	ASTM D1525	5kg,50°C/h	54	°C
Shrinkage	ASTM D955	23 °C	0.1-0.3	%
Coefficient of Thermal Expansion	ASTM E831		101×10-06	μm (m·°C)
Electrical Performance	Methods	Conditions	Values	Units
Volume Resistivity	ASTM D257		2.9E+15	ohm-cm
Dielectric Constant	ASTM D150	1kHz	1.51	
Physical Performance	Methods	Conditions	Values	Units
Density	ASTM D792	@23°C	1.3	g/cm ³
Melt Index	ASTM D1238	190°C/2.16kg	10	g/10min
Flame-Retardant Performance	Methods	Conditions	Values	Units
Flame Retardancy	UL94	1.5mm	HB	
Mechanical Performance	Methods	Conditions	Values	Units
Tensile Strength	ASTM D638	50mm/min	50.5	MPa
Young's Modulus	ASTM D638	1mm/min	4780	MPa
Elongation at Break	ASTM D638	50mm/min	9.6	%
Flexural Strength	ASTM D790	2mm/min	61	MPa
Flexural Modulus	ASTM D790	2mm/min	2234	MPa
Cantilever Beam Notched Impact Strength	ASTM D256	3.2mm	40	J/m