

PETG RESIN TECHNICAL DATA SHEET

Items	Unit	test method	UB-101
Property			
Intrinsic Viscosity	dL/g	Ubbelodhe viscometer	0.750±0.015
Specific Gravity	kg/cm ³	ASTM D792	1.29
Moisture Absorption	%	ASTM D570	0.15
Mechanical			
Tensile Strength @Yield 50mm/min(2 inch/min)	kgf/cm ²	ASTM D638	496
Tensile Strength @Break 50mm/min(2 inch/min)	kgf/cm ²	ASTM D638	281
Elongation @Yield 50mm/min (2 inch/min)	%	ASTM D638	3.7
Elongation @Break 50mm/min (2 inch/min)	%	ASTM D638	136
Flexural Strength 1.27mm/min (2 inch/min)	kgf/cm ²	ASTM D790	620
Flexural Modulus 1.27mm/min (3 inch/min)	kgf/cm ²	ASTM D790	20800
Low temperature falling dart impact	g	ASTM D358	791
Atmospheric temperature falling dart impact	g	ASTM D358	1701
Izod Impact Strength Notched@23°C(73°F)	J/m	ASTM D256	98
Hardness			
Rockwell Hardness	°C	R-scale	106
Thermal			
Heat Distortion Temperature @0.45MPa(66 psi)	°C	ASTM D648	77
Melting Index	g/10min	ASTM D 1238-04	1.2
Melting Point	°C	-	≥196±2
Electric property			
Surface Resistivity	Ohm	ASTM D257	10 ⁽¹⁶⁾

Volume Resistivity	Ohm • cm	ASTM D257	10 ⁽¹⁵⁾
Dielectric Strength (short time, 500V/sec)	kV • mm	ASTM D149	16
Dielectric Constant 1 kHz	-	ASTM D150	2.6
Dielectric Constant 1 MHz	-	ASTM D150	2.6
Dielectric Constant 1 kHz	-	ASTM D150	0.005
Dielectric Constant 1 MHz	-	ASTM D150	0.023
Flammability			
UL Flammability Classification UL 1.00mm	-	UL 94	HB
UL Flammability Classification UL 1.50mm	-	UL 94	HB
UL Flammability Classification UL 3.00mm	-	UL 94	V-2
Optical			
Haze	%	-	< 1.0
Transmittance	%	ASDM D541	90
Refractive Index	-	ASDM D542	1.52