

PETG RESIN GX-702 TECHNICAL DATA SHEET

Items	Unit	Test Method	GX-702
Property			
Intrinsic Viscosity	dL/g	Ubbelodhe viscometer	0.780±0.015
Specific Gravity	kg/cm ³	ASTM D792	1.27
Moisture Absorption	%	ASTM D570	0.12
Mechanical			
Tensile Strength @Yield 50mm/min(2 inch/min)	kgf/cm ²	ASTM D638	508
Tensile Strength @Break 50mm/min(2 inch/min)	kgf/cm ²	ASTM D638	292
Elongation @Yield 50mm/min (2 inch/min)	%	ASTM D638	5
Elongation @Break 50mm/min (2 inch/min)	%	ASTM D638	165
Flexural Strength 1.27mm/min (2 inch/min)	kgf/cm ²	ASTM D790	680
Flexural Modulus 1.27mm/min (3 inch/min)	kgf/cm ²	ASTM D790	21200
Low temperature falling dart impact	g	ASTM D358	829
Atmospheric temperature falling dart impact	g	ASTM D358	1803
Izod Impact Strength Notched@23°C(73°F)	J/m	ASTM D256	102
Hardness			
Rockwell Hardness	°C	R-scale	117
Thermal			
Heat Distortion Temperature @0.45MPa(66 psi)	°C	ASTM D648	68
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	2.4
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	1.56