

# GATONE™ - 5700

## Typical Values<sup>(1)</sup>

Test Properties	ASTM Method	U.S. Customary units		SI units	
		Value	Units	Value	Units
<b>General</b>					
Color	----	dark brown		dark brown	
Specific Gravity	D 792	1.30	-	1.30	-
Water Absorption, 24 hours	D 570	0.10	%	0.10	%
Melt Volume Rate (380°C /5Kg/6')	D 1238	35-70	cc/10min	35-70	cc/10min
<b>Mechanical</b>					
Tensile Strength	D 638	13.0	kpsi	91	MPa
Tensile Modulus	D 638	543	kpsi	3800	MPa
Tensile Elongation at Break	D 638	5	%	5	%
Flexural Strength	D 790	20.7	kpsi	145	MPa
Flexural Modulus	D 790	515	kpsi	3600	MPa
Rockwell Hardness	D 785	100	M scale	100	M scale
Impact Strength- Notched Izod	D 256	0.69	ft-lb/in	44	J/m
<b>Thermal</b>					
DTUL at 264 psi (1.82 MPa)	D 648	284	°F	140	°C
Glass Transition Temp.	D 3482	298	°F	148	°C
Continuous Use Temp <sup>(2)</sup>	UL -746B	500	°F	260	°C
Coefficient of Linear Thermal Expansion	D 698	2.5	10 <sup>-5</sup> /°F	4.5	10 <sup>-5</sup> /°C
<b>Electrical</b>					
Dielectric Strength	D 149	481	V/mil	19	kV/mm
Dielectric Constant @ 60 Hz	D 150	2.8	-	2.8	-
Dissipation Factor @ 60 Hz	D 150	0.003	-	0.003	-
Volume Resistivity	D 257	>10 <sup>16</sup>	ohm-cm	>10 <sup>16</sup>	ohm-cm
Surface Resistivity	D 257	>10 <sup>14</sup>	Ω	>10 <sup>14</sup>	Ω
Comparative Tracking Index	D 3638	150	V	150	V
<b>Flammability</b>					
Flammability @ 3.2 mm thickness	UL 94	V-0		V-0	
Limiting Oxygen Index	2863	40	%	40	%

1. These properties has been determined from injection molded test specimen under ideal processing parameters and conditioned at 23+/- 2°C and 50%RH .

2. Expected Approvals

- **UL Flammability**