

GATONE™ - 5300, 5400

Typical Values ⁽¹⁾

Test Properties	ASTM Method	U.S. Customary units		SI units	
		Value	Units	Value	Units
General					
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				
5300		3-5	cc/10min	3-5	cc/10min
5400		10-15	cc/10min	10-15	cc/10min
Mechanical					
Tensile Strength	D 638	13.6	kpsi	95	MPa
Tensile Modulus	D 638	543	kpsi	3800	MPa
Tensile Elongation at Break	D 638	>50	%	>50	%
Flexural Strength	D 790	22.9	kpsi	160	MPa
Flexural Modulus	D 790	543	kpsi	3800	MPa
Rockwell Hardness	D 785	100	M scale	100	M scale
Impact Strength- Notched Izod	D 256	1.13	ft-lb/in	60	J/m
Thermal					
DTUL at 264 psi (1.82 MPa)	D 648	302	°F	150	°C
Glass Transition Temp.	D 3482	298	°F	148	°C
Continuous Use Temp ⁽²⁾	UL -746B	500	°F	260	°C
Coefficient of Linear Thermal Expansion	D698	2.9	10 ⁻⁵ /°F	5.3	10 ⁻⁵ /°C
Electrical					
Dielectric Strength	D 149	481	V/mil	19	kV/mm
Dielectric Constant @ 60 Hz	D 150	2.9		2.9	-
Dissipation Factor @ 60 Hz	D 150	0.003		0.003	
Volume Resistivity	D 257	>10 ¹⁶	ohm-cm	>10 ¹⁶	ohm-cm
Surface Resistivity	D 257	>10 ¹⁴	Ω	>10 ¹⁴	Ω
Comparative Tracking Index	D 3638	150	V	150	V
Arc resistance	D 495	35	sec	35	sec
Flammability					
Flammability @ 0.8 mm thickness	UL 94	V-0		V-0	
Limiting Oxygen Index	D 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**
- USP Class VI approved
- EPA TSCA Registered