

## 5300, 5400

### Typical Properties of GATONE 5300 and 5400 Resin

Properties	ASTM Test Method	Typical Values <sup>(1)</sup>			
		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 (400°C, 2.16kg)	D 1238				
5300		1-3	cc/10 min	1-3	cc/10 min
5400		4-7	cc/10 min	4-7	cc/10 min
<b>Mechanical</b>					
Tensile Strength	D 638	12.9	kpsi	90	MPa
Tensile Modulus	D 638	500	kpsi	3.5	GPa
Tensile Elongation at Break	D 638	>50	%	>50	%
Flexural Strength	D 790	20.7	kpsi	145	MPa
Flexural Modulus	D 790	500	kpsi	3.5	GPa
Rockwell Hardness	D 785	100	M scale	100	M scale
Izod Impact Strength	D 256	1.1	ft-lb/in	60	J/m
<b>Thermal</b>					
Deflection Temperature, at 264 psi (1.82 MPa) <sup>(2)</sup>	D 648	284	°F	140	°C
Glass Transition Temperature	D 3482	298	°F	148	°C
Continuous Use Temperature <sup>(3)</sup>	UL-746B	500	°F	260	°C
Coefficient of Linear Thermal Expansion	D 696	29	µin/in°F	53	µm/m°C
<b>Electrical</b>					
Dielectric Strength	D 149	481	V/mil	19	kV/mm
Dielectric Constant at 60 Hz	D 150	2.9		2.9	
Dissipation Factor at 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>	ohm/sq	>10 <sup>14</sup>	ohm/sq
Comparative Tracking Index	D 3638	150	V	150	V
Arc Resistance	D 495	100	sec	100	sec
<b>Flammability</b>					
Flammability at 0.8 mm thickness	UL 94	V-0		V-0	
Limiting Oxygen Index	D 2863	40	%	40	%

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

<sup>(2)</sup> Measured using annealed specimen.

<sup>(3)</sup> Expected value.

#### Approvals

UL Flammability

USP Class VI approved

EPA TSCA Registered

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### Product Safety and Emergency Service

For product safety information or a Material Safety Data Sheet on a product of Solvay Advanced Polymers

**1 (800) 621-4557**

**1 (770) 772-8880 outside of U.S.**

For information or help in an emergency such as a spill, leak, fire or explosion, call day or night:

Emergency Health Information

**1 (800) 621-4590**

**1 (770) 772-5177 outside of U.S.**

Emergency Spill Information

**CHEMTREC 1 (800) 424-9300**

**1 (703) 527-3887 outside of U.S.  
collect calls accepted**

### For Additional Information

Technical Service

**1 (800) 621-4557**

Customer Service

**1 (800) 848-9744**

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In particular, the exploitation of our current GATONE® grades and articles made therefrom might fall within the scope of U.S. patent 6,909,015 and its counterparts in Europe, namely European Patent 1 263 836 and British patent GB 2 355 464.

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