

5600

Properties	ASTM Test Method	Typical Values ⁽¹⁾			
		U.S. Customary units		SI units	
		Value	Units	Value	Units
General					
Specific Gravity	D 792	1.30		1.30	
Water Absorption, 24 hours	D 570	0.10	%	0.10	%
Melt Volume Rate (400°C, 2.16 kg)	D1238	11-18	cc/10min	11-18	cc/10mm
Mechanical					
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
Impact Strength- Notched Izod	D 256	0.95	ft-lb/in	50	J/m
Thermal					
Deflection Temperature, at 264 psi (1.82 MPa) ⁽²⁾	D 648	284	°F	140	°C
Glass Transition Temperature	D 3482	298	°F	148	°C
Continuous Use Temperature ⁽³⁾	UL-746B	500	°F	260	°C
Coefficient of Linear Thermal Expansion	D 696	25	µin/in°F	45	µm/m°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	ohm/sq	>10 ¹⁴	ohm/sq
Comparative Tracking Index	D 3638	150	V	150	V
Arc Resistance	D 495	100	sec	100	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⁾ Measured using annealed specimen.

⁽³⁾ Expected value.

Approvals

UL Flammability

USP Class VI approved

EPA TSCA Registered

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GATONE 5600

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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.

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