

S 1300

Property	ASTM Test Method	Typical Values ⁽¹⁾			
		U.S. Customary Units		SI Units	
		Value	Units	Value	Units
General					
Specific Gravity	D 792	1.24		1.24	
Water Absorption, 24 hours	D 570	0.30	%	0.30	%
Melt Volume Rate (345°C, 5 kg)	D 1238	11-20	cc/10 min.	11-20	cc/10 min.
Mechanical					
Tensile Strength	D 638	10.7	kpsi	75	MPa
Tensile Modulus	D 638	329	kpsi	2.3	GPa
Tensile Elongation at Break	D 638	>50	%	>50	%
Flexural Strength	D 790	14.3	kpsi	100	MPa
Flexural Modulus	D 790	329	kpsi	2.3	GPa
Impact Strength- Notched Izod	D 256	0.9	ft-lb/in	50	J/m
Thermal					
DTUL at 264 psi (1.82 MPa) ⁽²⁾	D 648	329	°F	165	°C
Glass Transition Temp.	D 3482	372	°F	189	°C
Continuous Use Temperature ⁽³⁾	UL-746B	320	°F	160	°C
Coefficient of Linear Thermal Expansion	D 696	22	µin/in°F	40	µm/m°C
Electrical					
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 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	40	sec	40	sec
Flammability					
Flammability at 3.2 mm (0.125")	UL 94	V-0		V-0	
Limiting Oxygen Index	D 2863	31	%	31	%

⁽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 3.2 mm thick specimen.

⁽³⁾ Expected

Approvals

NSF 51 and 61 Certified

FDA Certified (Internal Certification)

USP Class VI approved

EPA TSCA Registered

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