

## MECHETEC DELRIN DE588 Typical Properties

Property	Test Method	Units	Delrin DE588
Mechanical			
Specific Gravity	ASTM D792		1.54
Tensile Strength	ASTM D638	psi	6,630
Elongation at Break	ASTM D638	%	30
Tensile Modulus	ASTM D638	psi	540,000
Flexural Strength	ASTM D790	psi	12,500
Flexural Modulus	ASTM D790	psi	405,000
Compression Strength	ASTM D695	psi	12,600
Izod Notched Impact	ASTM D256	ft lb./in	
Rockwell Hardness	ASTM D785	M or R scale	R110
Thermal			
Coef. Of Linear Thermal Expansion	ASTM D696	in./in./°F	4.4 x 10 <sup>-5</sup>
Max Continuous Temp.	Internal Std.	°F	185
Heat Defl. Temp. @ 264 psi	ASTM D648	°F	244
Melting Point	ASTM D3418	°F	350
Electrical			
Dielectric Constant	ASTM-DI50		3.1
Surface Resistivity	ASTM-D257	Ohm/cm	10 <sup>16</sup>
Dielectric Strength	ASTM-DI49	volts/mil	400
g .			
Miscellaneous			
Water Absorption/24 hours	ASTM D570	%	0.2
Water Absorption @ Saturation	ASTM D570	%	0.8
Dissipation Factor	ASTM D150	1 MHz	0.009
Agency Compliance			
FDA			No
USDA			No
NSF			No

Note: Meets requirements for NAVSEA 5959311 rev. C and NAVSEA 803-4384678 rev. B and C

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