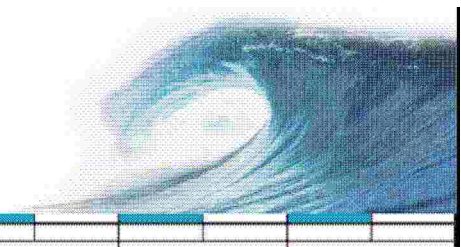


# DMX™ Material



## PHYSICAL & MECHANICAL PROPERTIES – TYPICAL VALUES

<b>COMPERSSION MODULUS</b>	67.3 kpsi	464.19 Mpa
<b>Ultimate Compressive Strength</b> (DMX is an elastic material that can be compressed beyond 40% without Failure, at 40% strain, comp stress is 46 Mpa) ( ASTM D695-02a )	3626 psi @ 20% Strain	25 Mpab @ 20% Strain
<b>TENSILE STENGTH</b>	2006 psi	13.83 MPa
<b>MAX STRAIN</b>	0.39	
<b>MODULUS ELASTICITY</b>	103 kpsi	0.71 GPa
<b>POISSON'S RATION</b> ( ASTM D638-02 )	0.52	
<b>IZOD IMPACT (un-notched)</b> ( ASTM D4812-99 )	26.9 ft-lb/in	1436 J/m
<b>HARDNESS</b> ( ASTM D2240-02a Shore A Hardness )	64 shore D	
<b>WATER ABSORPTION H<sup>2</sup>O</b> ( ASTM D570-98,Immersion in H <sup>2</sup> O, 24 hrs @23°C )	0.12 %	
<b>WATER ABSORPTION Sea Water</b> ( ASTM D570-98,Immersion in Sea Water 24 hrs. @ 23°C (volume change )	0.1%	
<b>OIL ABSORPTION</b> ( MIL-B-17901B, Amendment 3, Immersion in IRM 903 46 hrs.@23°C ) (volume change)	0.15%	
<b>THERMAL EXPANSION</b> ( ASTM D696-98 ) Range -25°C thru 100°C	9.6 x10-5 F-1	17.3 x10-5 C-1
<b>SPECIFIC GRAVITY</b> ( ASTM D792 – 91 )	1.03	
<b>BREAK-AWAY COEFFICIENT OF FRICTION</b>	0.14 to 0.20	
<b>SHEAR STRENGHT</b> ( ASTM D3846-02 )	320 lbs. ft.	434 Nm

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