

Titan Chem Epoxy

EP-C-003 a rigid, chemical and temperature resistant material

MECHANICAL PROPERTIES	STANDARD	VALUE
Ultimate Tensile Strength	ASTM D638-IV	59.2 MPa
Elongation at Break	ASTM D638-IV	2.5%
Elastic Modulus	ASTM D638-IV	2.7 GPa
Flexural Strength	ASTM D790	71.7 MPa
Flexural Modulus	ASTM D790	2.4 GPa
Shore Hardness	ASTM D2240	81 D
THERMAL PROPERTIES	STANDARD	VALUE
HDT @ 0.45 MPa	ASTM D648	130 °C
HDT @ 1.82 MPa	ASTM D648	116 °C
Glass Transition Temperature	ASTM D3418	131 °C
GENERAL PROPERTIES	STANDARD	VALUE
Density	ASTM D792	1.21 g/cm ³

To the best of our knowledge the information contained herein is accurate. However, Inkbit Corporation makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof.

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BIOCOMPATIBILITY	STANDARD	VALUE
Cytotoxicity	ISO 10993-5	Pass (24 h)

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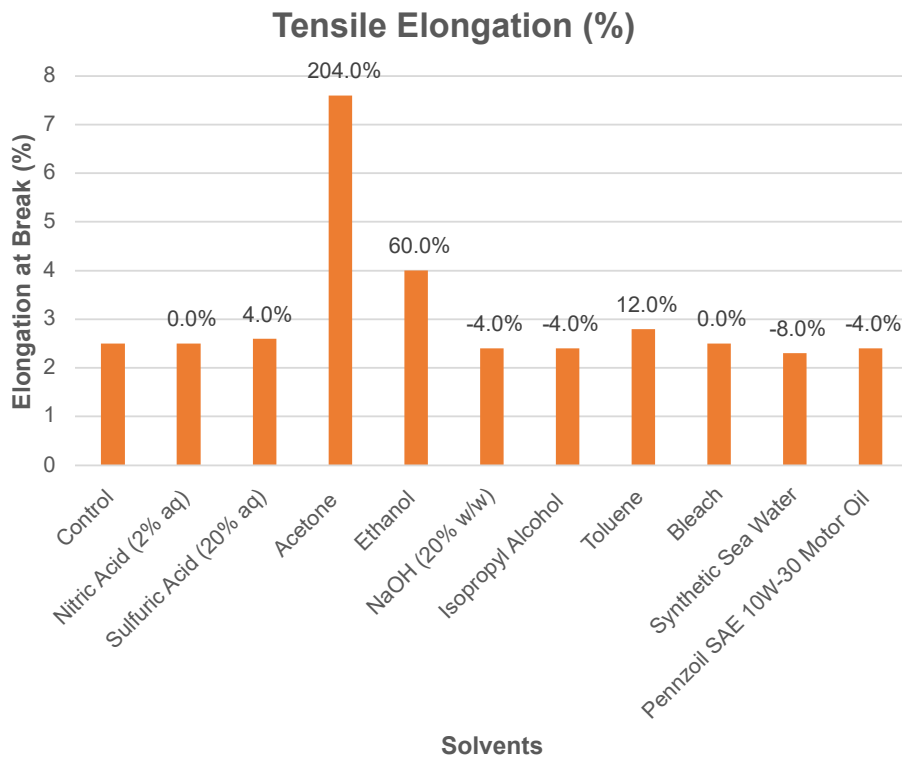
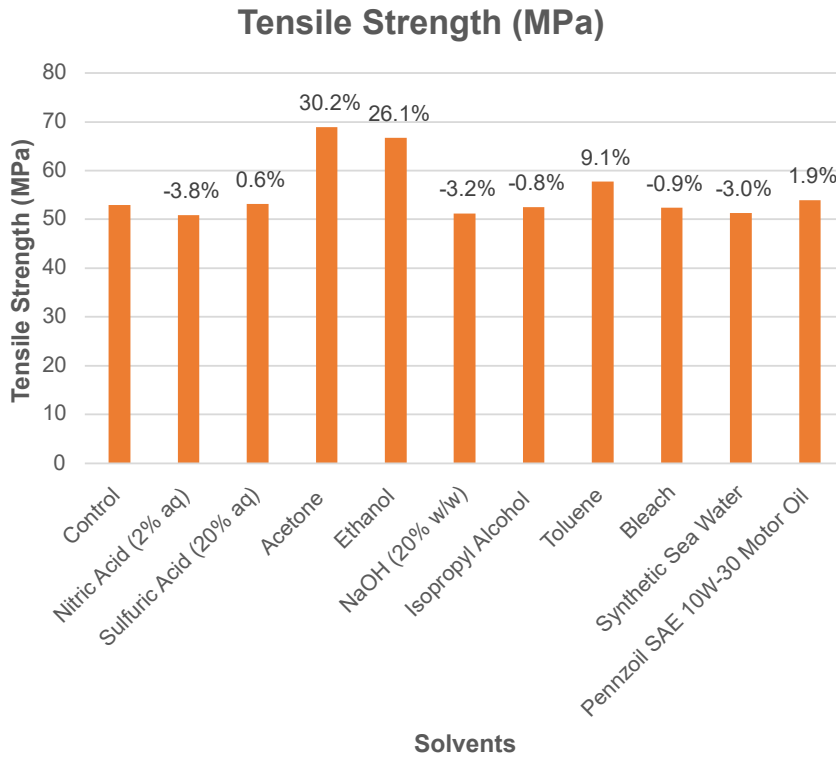
SOLVENT COMPATIBILITY

Percent weight gained after five days submersion at 25 °C, following ASTM D543.
Testing carried out by an ASTM certified laboratory.

SOLVENT	5 DAY WEIGHT GAIN (%)
Isopropyl Alcohol	-0.029
Acetone	0.514
Ethanol	0.481
Sulfuric Acid (w/w 20% aq)	0.424
NaOH (20% w/w)	0.578
Nitric Acid (2% aq)	0.742
Toluene	0.06
Pennzoil SAE 10W-30 Motor Oil	0.096
Synthetic Sea Water	0.255
Bleach	0.347

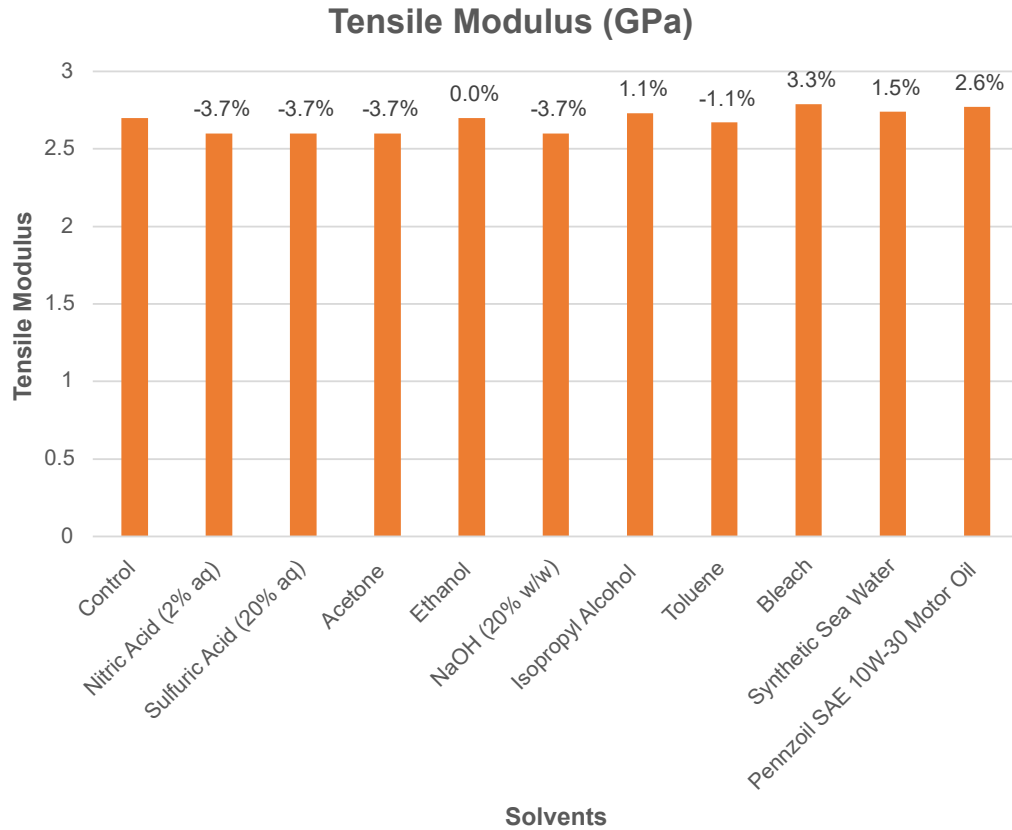
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