

## CRG Industries Essexplex AB43 Thermoplastic Shape Memory Polymer Resin

Category : Polymer , Thermoplastic

### Material Notes:

Essexplex is a melt-processible shape memory polymer (SMP) resin. Its unique properties offer versatile design options for reconfigurable and customizable products. Essexplex is compatible with current manufacturing processes in a wide range of markets. It is rigid below its activation temperature and can be formed into a new shape above its activation temperature. Attributes: Reconfigurable Versatile design options No Volatile Organic Compounds Melt processable Non-reactive Uses: Custom molds Toys Furniture Architectural elements Mass-produced consumer goods Custom grips and handles Auto body parts Smart fasteners Switchable mounting brackets

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CRG-Industries-Essexplex-AB43-Thermoplastic-Shape-Memory-Polymer-Resin.php](http://www.lookpolymers.com/polymer_CRG-Industries-Essexplex-AB43-Thermoplastic-Shape-Memory-Polymer-Resin.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength	53.1 MPa	7700 psi	ASTM D638
Elongation at Break	85 %	85 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	ASTM D3428
Glass Transition Temp, Tg	43.0 °C	109 °F	ASTM D3418

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