

# Elvacite® 1010 Macromonomer

Macromonomers are very low molecular weight methyl methacrylate polymers which have reactive vinyl end groups. These vinyl end groups are available for further reaction with monomers, such as styrene or butyl acrylate. Macromonomers provide very low viscosities for modification of coatings inks and adhesives to improve flow, hardness and chemical resistance.

- **Outstanding resistance to ultraviolet degradation**
- **Excellent weatherability**
- **Superior abrasion resistance**
- **Excellent resistance to water, alcohol, dilute acids and alkalies, chemical fumes and corrosive and oxidizing environments**
- **High gloss and hardness**
- **Generally low pigment reactivity**
- **Water-white color and transparency**
- **Resistance to discoloration on heating**

Applications for macromonomers include adhesives, coatings and inks. The table below lists the most common Elvacite® macromonomer grades.

### Typical Properties<sup>a</sup>: Elvacite® Macromonomer Grades

Grade	Tg (°C)	Mw ('000)	Inherent Viscosity <sup>b</sup>	Comments
1010	105	4-10	0.047-0.087	Lowest Viscosity Modification

a) *Typical physical properties listed are approximate values and should not be considered manufacturers release specifications. Manufacturers release specifications are subject to change without notice, please contact your Lucite International Representative for the latest product specification details.*

b) *Inherent viscosity of a solution containing 0.25 g polymer in 50 ml of methylene chloride measured at 20°C using a No. 50 Cannon-Fenske viscometer.*

**For Further Information Contact:**

**USA**

Lucite International  
Lucite Center  
7275 Goodlett Farms Parkway  
Cordova TN 38016  
TEL: 800 4-LUCITE  
[www.luciteinternational.com](http://www.luciteinternational.com)

**Europe**

Lucite International Speciality Polymers & Resins Ltd.  
Horndale Ave - Newton Aycliffe Co.  
Newton Aycliffe Co.  
Durham DL5 6YE UK  
TEL: +44 (0) 1325 300990  
FAX: +44 (0) 1325 314925  
[www.luciteinternational.com](http://www.luciteinternational.com)

The information and recommendations in this publication are, to the best of our knowledge, reliable. Users should make their own tests to determine the suitability of these products for their own particular purposes. Lucite International, Inc. MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to its applicable current Standard Specifications. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of Lucite International, for claims arising out of breach of warranty, negligence, strict liability or otherwise is limited to the purchase price of the material. Statements concerning the use of the products or formulations described herein are not to be construed as recommending the infringement of any patent, and Lucite International, assumes no liability for infringement arising out of such use.

ELVACITE® is a registered trademark of Lucite International, Inc.