

# ELVACITE®

ACRYLIC RESINS

## Elvacite® 1035

Elvacite® 1035 is a very low molecular weight methyl methacrylate polymer which has reactive vinyl end groups. These vinyl end groups are available for further reaction with monomers, such as styrene, acrylonitrile, and acrylates. This polymer provides very low viscosities for modification of coatings, inks, and adhesives to improve flow, hardness, and chemical resistance.

Typical Properties <sup>a</sup>	
Appearance	Solid bead
Glass Transition Temp, onset	82°C
Molecular Weight (Mw)	6,000

*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 Dianal America Representative for the latest product specification details.*

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### Preparing Solutions

Elvacite® resins dissolve at room temperature but require constant agitation to prevent solvent-swollen granules of polymer from forming agglomerates and sticking to the walls of the vessel. Important: The polymer beads should be sifted directly into the vortex of the stirred solvent to speed wetting-out and dispersion. Continuous low-shear agitation for periods of 1-12 hours, depending on the grade and concentration of resin, is recommended.

After the solution appears clear in the tank, a sample should be spread out on a Leneta card or glass. After the solvent evaporates and a film forms on the card or glass, there should not be any resin seeds. If there are any seeds, the tank should be agitated further to fully dissolve the resin. Tank agitation should not be stopped (except for sampling) until the film test indicates there are no resin seeds. Any cloudiness or residue may indicate that some polymer remains undissolved. The presence of water in the system can also cause cloudiness.

Solution time can be reduced by heating; most common solvents can be heated to approximately 49°C (120°F) without the need for reflux equipment. High-shear agitation also cuts dissolving time, but requires care to avoid overheating and excessive solvent loss.

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For further information or samples, please contact your local Dianal America, Inc. distributor, or:

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