

TECHNICAL BULLETIN

PRODUCT: POLYRAD 650

POLYRAD 650 is a unique radiation curable polyester resin. It possesses both acrylate and methacrylate functional groups that react via free radical initiation. As full cure is achieved, POLYRAD 650 exhibits excellent low shrinkage properties. Inks and coatings based on POLYRAD 650 exhibit toughness and abrasion resistance.

POLYRAD 650 is compatible with all types of reactive diluents, and with all types of photoinitiators.

PHYSICAL PROPERTIES:

Density (g/cm ³)	1.2500 ± 0.0025
Tg	160° ± 5° C
Coefficient of Thermal Expansion	$\alpha_1 = 50 \pm 2$
Shrinkage (TGA @ 300°C)	< 1.0%
Molecular weight (avg.)	650
Weight Solids	>99.9%
Viscosity (@ 40°C)	9000 ± 250 m·Pa

For further information, please direct your inquiries to:

Designer Molecules Inc.
10090 Willow Creek Road
San Diego, CA 92131

Contact: Sharon Hanson
Phone: (858) 536-4703
Fax: (858) 348-1123
E-mail: shanson@designermoleculesinc.com
Web page: www.designermoleculesinc.com