

TECHNICAL BULLETIN

PRODUCT: POLYRAD™ 3100

POLYRAD 3100 is a higher molecular weight radiation curable polyester resin diluted with isobornyl methacrylate (IBOMA). It possesses both acrylate and methacrylate functional groups that react via free radical initiation. As full cure is achieved, POLYRAD 3100 exhibits excellent low shrinkage properties. Inks and coatings based on POLYRAD 3100 exhibit toughness and abrasion resistance.

POLYRAD 3100 is compatible with all types of reactive diluents, and with all types of photoinitiators.

PHYSICAL PROPERTIES:

Density (g/cm ³)	1.1750 ± 0.0025
Tg	50.0° ± 2.5° C
Coefficient of Thermal Expansion	$\alpha_1 = 70 \pm 2$
Shrinkage (TGA @ 300°C)	< 1.0%
Molecular weight (neat oligomer)	3000 avg.
Reactive Diluent(s):	Isobornyl methacrylate (20 pbw)
Weight Solids	>99.0%
Viscosity (@ 40°C)	>100000 m·Pa

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