DMPA® Polymeric Polyols

DMPA® Polymeric Polyols are designed to meet the need for high performance raw materials that can be used in environment friendly resin systems.

Our unique polymeric polyols can be formulated into a variety of VOC compliant coatings with excellent adhesion, chemical resistance and pigment dispersing ability.

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Polymeric Polyol	Product Description
DMPA® Polyol HA-0135	Acid functional DMPA® polyester polyol
DMPA® Polyol HA-0135LV2	Low viscosity acid functional DMPA® polyester polyol
DMPA® Polyol HC-0123	Vegetable oil dicyclopentadiene (DCPD) polyol
DMPA® Polyol BA-0132	Aromatic DMPA® polymeric polyol

Typical Properties	DMPA® Polyol HA-0135	DMPA® Polyol HA-0135LV2	DMPA® Polyol HC-0123	DMPA® Polyol BA-0132
Appearance	Clear / slightly hazy viscous liquid	Clear / slightly hazy viscous liquid	Amber resin	Clear solid resin
Acid Value mg KOH / g (as supplied)	100 - 115	80 - 95	5.0 max	10.0 max
Hydroxyl Number mg KOH / g (as supplied)	100 - 115	330 - 345	60 - 80	400 - 450
Non-volatile, %	98 min		98 min	98 min
Brookfield Viscosity	@ 55°C 150-350 P 100% nvm	@ 25°C 150-250 P 100% nvm	@ 25°C 50-80 P 100% nvm	@ 25°C 17-25 P 60% in PM acetate
Density @ 25°C (grams / litre)	1200 - 1240	1140 - 1200	980 - 1020	N/A
Hydroxyl Equiv. Value (as supplied)	500	162 - 170	700 - 935	125 - 140
Colour, Gardner	2 max	2 max	12 max	3 max @ 60% nvm
Melt Point (DSC)	Liquid @ 25°C	Liquid @ 25°C	Liquid @ 25°C	60 - 70°C
Attributes	• Contains both acid and hydroxyl functionality • Linear polyester with functionality in terminal position • Flexible polyester backbone	• Contains both acid and hydroxyl functionality • High concentration of hydroxyl groups giving increased coating hardness and chemical resistance • Low crystallinity for ease of handling at low temperatures	• Hydroxyl groups allow use in variety of applications including both solvent-borne and water-borne resins • Soluble in water miscible and low boiling aprotic solvents	• High concentration of primary hydroxyl groups in the terminal position • Versatile Bis-phenol A backbone
Applications	• Polyurethane Dispersions (PUDs) • Water-borne coating resins • Co-resin to improve adhesion, pigment dispersion • Esters for UV cure • Improve adhesion of baking enamels, 2K urethanes	• Soft or hard Polyurethane Dispersions (PUDs) • Water-borne coating resins • Co-resin to improve adhesion, pigment dispersion • Esters for UV cure • Improves adhesion of baking enamels, 2K urethanes • Improves resin compatibility with TBAC in solvent-borne systems	• Direct to metal adhesion • Stain blocking wood primers • Pigment dispersing resins • Corrosion resistant coating • Polyurethane dispersions (PUD) • Improved hygrophobicity	• Powder coating resins • 2K urethanes • Epoxy modified alkyd dispersions • Vinyl esters • UV curable resins • Co-resin with polyesters, alkyds or acrylics to improve adhesion and corrosion resistance

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