

Polycin™ 640-M1

polyol for polyurethane sealants and adhesives

product information

Polycin 640-M1 is a solventless, castor oil-based polyol for use in polyurethane formulations. Secondary hydroxyl functionality provides longer open time and work life. Polycin 640-M1 will produce a polyurethane with a mid- to high Shore D hardness when cured with MDI-based adducts.

application background

- Formulation of 100% solids polyurethanes
- Coatings, adhesives, sealants and elastomeric formulations
- When mixed with Vorite™ prepolymers, it results in an excellent adhesive and sealant for various medical devices

performance benefits

- Tough but flexible MDI-cure with elongation >100% and tensile strength of 5000 psi at yield
- Inherent moisture resistance from hydrophobic nature
- Biocompatibility when cured with Vorite prepolymers
- Biodegradable and renewable source
- Soluble in alcohols (hot), esters, ethers, ketones and aromatic hydrocarbons, partially soluble in aliphatic hydrocarbons

typical characteristics

Acid Value	0.7
Appearance	clear liquid
Hydroxyl Value	215
Functionality	3
Viscosity, cP @ 25°C	650
Specific Gravity, 25°C/25°C	0.97
Moisture, %	0.05 maximum
Non-Volatile, %	100

recommended use levels

- Mix ratio 45 pbw Polycin 640-M1 with 55 pbw Vorite 689

Consult the Safety Data Sheet for hazard and regulatory information

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Revised 11-December-23



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technical data sheet