

HydroMed™ | Lubricious Hydrophilic Polyurethanes

Product Description

HydroMed represents a series of ether-based hydrophilic polyurethanes with excellent adhesive and cohesive properties while exhibiting tailored water absorption levels depending upon end product targets. This material does not require UV curing and as such, provides a superior alternative to UV curable materials for devices which require inner lumen or complicated form coatings.

These materials were designed for use as coatings for a wide array of metallic and polymeric substrates. HydroMed series can also be coated onto diagnostic devices to reduce the absorption of white blood cells and proteins, thereby aiding in blood analysis. HydroMed is processed by traditional solvent coating methods. The polymer granules can be dissolved in varying concentrations using most organic and inorganic solvent packages.

General	Key Features	• Excellent Lubricity • Heightened Elongation • Ready-to-use Solutions Available	• Wide Absorption and Expansion Ranges • Low Heat-Curable
	Forms	• Granule • Solution	
	Processing Methods	• Coating • Cast Film	
	Common Applications	• Lubricious coating • Hydrophilic coating	• Semi-permeable membrane • Diagnostics

HydroMed Coatings

ASB can provide each of the HydroMed grades in solution form. Based upon individual device requirements, custom formulations can be developed to provide targeted lubricity, adhesion and thickness levels.

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FDA Master Files. It is the responsibility of the user to establish safety with the FDA for their specific medical device.

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Technical Properties

Typical Properties*	HydroMed™								
	HyroMed D Series*	D1	D2	D3	D4	D6	D640	D7	HydroSlip C
	% Linear Expansion	45	25	40	50	60	100	10	180
	% Water Content	70	55	60	50	80	90	30	95
	TOLERANCE RANGES FOR HYDROMED D SERIES* % Linear Expansion can range from +/- 10 to +/- 25 depending upon product selected* % Water Content can range from +/- 2 to +/- 25 depending upon product selected*								

*Data provided herein is meant to show a general range for the HydroMed product lines; these properties can be tailored to meet specific values based on customer requirements.

Processing Information

HydroMed solutions can be dip coated or spray coated. In the former, it is recommended to submerge into the solution for 3 to 20 seconds. The solvent will evaporate under normal, non-humid room temperatures within 3 to 30 minutes, depending upon concentration, solvent used and coating thickness.

Alternatively, the component can be oven heated up to 80°C for 2 to 15 minutes, depending on coating thickness, solvent choice and material substrate to expedite removal of the solvent.

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