

HydroMed™ D640

Polyurethane (Polyether based)
AdvanSource Biomaterials Corp.

Message:

HydroMed D is a series of ether-based hydrophilic urethanes 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 devices including catheters, guidewires, sutures, introducers, rods, and valves. The HydroMed series can also be coated onto devices to reduce the absorption of white cells and proteins, thereby aiding in the analysis of blood and DNA.

HydroMed is processed by traditional solvent coating methods. The polymer granules can be dissolved in varying concentrations using most organic and inorganic solvent packages.

AdvanSource Biomaterials synthesizes and manufactures medical grade materials offering the ability to tailor physical and mechanical characteristics to support and enhance your end product design.

These mechanical characteristic's, critical to the design and development of medical devices, can incorporate a wide range of physical and chemical properties while maintaining core characteristics such as bi durability and biocompatibility. In most materials, specialized characteristics such as the addition of colorant agents or antimicrobial properties (where applicable) can be added to the polymer to provide a homogenous material and limit secondary processing steps.

In addition, radiopaque agents may also be incorporated into the formula to provide additional product enhancements and may contain up to 40%, by weight, of a radiopaque agent thus allowing varied-scale visibility options.

With an expanding range of secondary operations including custom solution development, prototype coating capabilities, and project management services, ASB's expert team of chemists, scientists, engineers and industry professionals assist in every stage of customers' projects, from concept initiation through full-scale manufacture.

| General Information | | |
|---------------------|---------------------------------|------|
| Additive | High Slip | |
| Features | Biocompatible | |
| | Good Adhesion | |
| | High Elongation | |
| | High Slip | |
| | Hydrophilic | |
| | Low Friction | |
| | Lubricated | |
| Uses | Coating Applications | |
| | Medical/Healthcare Applications | |
| | Valves/Valve Parts | |
| Agency Ratings | EU 1999/534/EC | |
| Forms | Granules | |
| Processing Method | Solution Coating | |
| Physical | Nominal Value | Unit |
| Water Content | 90 | % |
| Linear Expansion | 100 | % |

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