

HydroThane™ AL 93A (Hydrated)

Thermoplastic Polyurethane Elastomer

AdvanSource Biomaterials Corp.

Описание материалов:

HydroThane is a hydrophilic thermoplastic polyurethane elastomer, ranging in water absorption rates from 5% to 25%. This unique extrudable hydrophilic product line was designed to provide maximum physical properties for use in extruded or injection molded components, while allowing for consistent single-step surface lubricity characteristics and a low coefficient of friction.

Available in aliphatic and aromatic versions, these elastomers have the ability to rapidly absorb water while maintaining high tensile strength and high elongation, resulting in a permanently lubricious polymer.

HydroThane can be processed using conventional extrusion or injection molding equipment.

Being hydrophilic even when dehydrated, they should be sealed and stored in a cool, dry place and are available in hardnesses of 80 Shore A and 93 Shore A.

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 biodegradability 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.

Главная Информация			
Характеристики	<p>Биосовместимый</p> <p>Высокое удлинение</p> <p>Высокая прочность</p> <p>Гидрофильная</p> <p>Низкое трение</p> <p>Нет животных производных компонентов</p>		
Рейтинг агентства	<p>ISO 10993 часть 5</p> <p>USP класс VI</p>		
Формы	Гранулы		
Метод обработки	<p>Экструзия</p> <p>Литье под давлением</p>		
Физический	Номинальное значение	Единица измерения	Метод испытания
Массовый расход расплава (MFR) (190°C/2.16 kg)	2.0 to 26	g/10 min	ASTM D1238
Содержание воды	5.0 to 20	wt%	
Твердость	Номинальное значение	Единица измерения	Метод испытания

Твердость дюрометра (Shore A)	93		ASTM D2240
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение			ASTM D638
Break	13.8 to 20.7	МПа	
50% Strain	4.14 to 5.52	МПа	
100% Strain	6.21 to 8.27	МПа	
200% Strain	8.96 to 11.7	МПа	
300% Strain	10.3 to 14.5	МПа	
Удлинение при растяжении (Break)	450 to 650	%	ASTM D638

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