

ChronoFlex® AR

Thermoplastic Polyurethane Elastomer (PC Based)

AdvanSource Biomaterials Corp.

Описание материалов:

The ChronoFlex AR and ChronoFlex AR-LT products are aromatic polycarbonate urethanes designed for molding, casting and dip coating applications. These unique materials are fully synthesized in liquid providing superior strength & elongation while maintaining the inherent polycarbonate advantages of long-term permanent durability and resistance to Environmental Stress Cracking (ESC). Additionally, they may be electrospun or used in water emulsion processes.

ChronoFlex AR & AR-LT polymers are ideal in applications requiring exceptional flexural endurance such as artificial heart diaphragms, vascular grafts, or for use in the fabrication of blood contact surfaces, such as coatings.

The ChronoFlex AR & AR-LT demonstrates an inherent low-tack property, which allows for pulsatile flow in-situ, an innovative characteristic optimal for devices such as VADs and artificial valves components.

This product line is offered in a wide range of viscosity/concentration configurations based upon specific product requirements.

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.

Главная Информация

Характеристики	Ароматические Биосовместимый Хорошая прочность Высокая эластичность Высокий уровень ЭСКП (устойчивость к стрессу) Нет животных производных компонентов
Используется	Медицинские/медицинские приложения
Рейтинг агентства	ISO 10993 часть 5 USP класс VI
Формы	Жидкость
Метод обработки	Литье Покрытие Dip Литье под давлением

Физический	Номинальное значение	Единица измерения
Содержание твердых веществ	8.0 to 25	%

Вязкость

22% Solids 10.0 to 50.0 Pa·s

8% Solids 0.100 to 0.800 Pa·s

Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение			ASTM D638
Break	20.7 to 68.9	MPa	
50% Strain	1.72 to 4.14	MPa	
100% Strain	2.76 to 6.89	MPa	
200% Strain	4.83 to 13.8	MPa	
300% Strain	6.55 to 24.1	MPa	
Удлинение при растяжении (Break)	600 to 1200	%	ASTM D638

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Свяжитесь с нами

Susheng Import & Export Trading Co.,Ltd.

Телефон: +86-021-58958519

Мобильный телефон: +86-13424755533

Email: sales@su-jiao.com

Адрес: Господин Чжао

Район Фэнсянь, Шанхай, Китай



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