

ChronoFlex® C 75D

Polyurethane

CardioTech International, Inc.

Описание материалов:

ChronoFlex C is a family of biodurable aromatic polycarbonate-based thermoplastic urethanes designed to overcome surface degradation such as stress-induced microfissures.

With a long history of reliable performance in both long and short term devices, this medical grade polymer has the versatility to be used across a broad range of applicational areas ranging from oncology and orthopedics to cardiovascular disease management.

These ether-free polyurethane elastomers are biostable and display a low modulus of elasticity, excellent solvent resistance and limited softening in-vivo.

These products are adaptable to most standard manufacturing processes and are available in hardnesses ranging from 75 Shore A to 75 Shore D. 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 biodurability 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 химическая стойкость Хорошая прочность Высокий уровень ЭСКП (устойчивость к стрессу) Нет животных производных компонентов Устойчивость к растворителям | | |
| Используется | Медицинские/медицинские приложения | | |
| Рейтинг агентства | ISO 10993 Часть 10 ISO 10993 часть 11 ISO 10993 часть 5 USP класс VI | | |
| Формы | Гранулы | | |
| Физический | Номинальное значение | Единица измерения | Метод испытания |
| Массовый расход расплава (MFR) (205°C/3.26 kg) | 2.0 to 26 | g/10 min | ASTM D1238 |
| Поглощение воды (Saturation) | 1.0 | % | ASTM D570 |
| Твердость | Номинальное значение | Единица измерения | Метод испытания |

| Твердость дюрометра (Shore D) | 75 | | ASTM D2240 |
|--------------------------------------|----------------------|-------------------|-----------------|
| Механические | Номинальное значение | Единица измерения | Метод испытания |
| Прочность на растяжение | | | ASTM D638 |
| Break | 31.0 to 44.8 | MPa | |
| 50% Strain | 29.0 to 34.5 | MPa | |
| 100% Strain | 31.0 to 35.9 | MPa | |
| 200% Strain | 33.8 to 40.0 | MPa | |
| Удлинение при растяжении (Break) | 200 to 350 | % | ASTM D638 |
| Иньекция | Номинальное значение | Единица измерения | |
| Температура сушки-Осушитель сушилка | 71.1 to 93.3 | °C | |
| Время сушки-Осушитель сушилка | 3.0 to 4.0 | hr | |
| Dew Point | -40.0 | °C | |
| Рекомендуемая максимальная влажность | 0.050 | % | |

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