

ChronoPrene™ 75A

热塑性弹性体

AdvanSource Biomaterials Corp.

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Technical Data

产品说明

This biocompatible elastomer may be considered as a substitute for rubber, latex and silicone materials. Soft and compliant, the ChronoPrene resins offer a high flexural modulus, as well as a superior combination of tensile strength and elongation.

An easy molding, high-flow material, ChronoPrene can be processed using conventional extrusion, injection molding and blowmolding methods. Its physical properties make it an optimal material for applications requiring elastic characteristics, such as compliant/ non-compliant balloons, endoscopic and laparoscopic inflation bags.

ChronoPrene can be processed at low temperatures, resulting in excellent surface smoothness and superior elasticity. ChronoPrene exhibits high abrasion resistance, durability and UV stability and is available in hardnesses ranging from 5 Shore A to 75 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.

总体

材料状态	• 已商用：当前有效		
资料 ¹	• Technical Datasheet (English)		
供货地区	• 北美洲		
特性	• Hydrophobic • 抗紫外线性能良好 • 良好的成型性能 • 良好耐磨损性	• 流动性高 • 耐化学性良好 • 耐用性 • 柔软	• 生物兼容性 • 无动物源性成分 • 延高的拉伸率 • 优良外观
用途	• 医疗/护理用品		
机构评级	• ISO 10993 Part 5	• USP 第VI类	
形式	• 粒子		
加工方法	• 吹塑成型	• 挤出	• 注射成型

物理性能	额定值 单位制	测试方法
熔流率 (熔体流动速率) (200°C/5.0 kg)	2.0 到 26 g/10 min	ASTM D1238

机械性能	额定值 单位制	测试方法
抗张强度		ASTM D638
断裂	8.27 到 9.65 MPa	
50% 应变	5.69 到 6.72 MPa	
100% 应变	6.72 到 7.58 MPa	
200% 应变	7.58 到 8.96 MPa	
300% 应变	8.96 到 9.65 MPa	
伸长率 (断裂)	250 到 350 %	ASTM D638

硬度	额定值 单位制	测试方法
肖氏硬度 (邵氏 A)	75	ASTM D2240

注射	额定值 单位制
干燥温度 - 热风干燥机	71 到 93 °C
干燥时间 - 热风干燥机	3.0 到 4.0 hr
Dew Point	-40 °C



注射	额定值 单位制
建议的最大水分含量	0.050 %

备注

- ¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。
- ² 一般属性：这些不能被视为规格。



购买地点

供应商

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分销商

请联系供应商以便为 ChronoPrene™ 75A 查找分销商

