

PolyBlend™ 1100-45A

Thermoplastic Polyurethane Elastomer Alloy

AdvanSource Biomaterials Corp.

Описание материалов:

PolyBlend is a family of exceptionally soft, aromatic polyurethane elastomeric alloys, which can be used as a substitute for natural rubber or latex in many applications.

These polymers encompass unique characteristics such as low flexural modulus, moderate tensile strength, and high elongation, in addition to allowing for a high draw-down ratio due to its superior melt strength and chemical integrity.

PolyBlend can be processed on conventional extrusion or injection molding equipment and is available in hardnesses ranging from 45 Shore A to 80 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 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	<ul style="list-style-type: none"> Ароматические Биосовместимый Хорошая просадка Хорошая гибкость Хорошая прочность расплава Высокое удлинение Средняя прочность Нет животных производных компонентов Мягкий
Рейтинг агентства	ISO 10993 часть 5
Формы	Гранулы
Метод обработки	<ul style="list-style-type: none"> Экструзия Литье под давлением

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
Поглощение воды (Saturation)	0.067 to 0.28	%	ASTM D570
Твердость	Номинальное значение	Единица измерения	Метод испытания

Твердость дюрометра (Shore A)	45		ASTM D2240
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение			ASTM D638
Break	11.7 to 14.5	МПа	
50% Strain	0.276 to 0.689	МПа	
100% Strain	0.689 to 1.03	МПа	
200% Strain	1.03 to 1.38	МПа	
300% Strain	1.21 to 1.72	МПа	
Удлинение при растяжении (Break)	1400 to 1700	%	ASTM D638

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