Material Introduction

PEBX Glide™

High Lubricity PEBA - Polyether Block Amide

Overview-

PEBA is a high-performance thermoplastic elastomer with elastic memory, better low temperature properties, and higher elongation at break than other thermoplastic elastomers. It is available with a Shore D hardness range from 35 to 72. This produces a broad spectrum of mechanical properties which make it perfect for catheter jackets; varying degrees of flexibility or stiffness as required.

PEBX Glide™, our high lubricity PEBA blend, retains many of the same mechanical properties that make it attractive for catheter jacketing, but with up to a 60 percent decrease in coefficient of friction, resulting in reduced drag and enhanced performance.

FLEXURAL MODULUS

MOISTURE ABSORPTION

BIOCOMPATIBILE

Extruded PEBX Glide™ is available in a variety of colors, sizes, and durometers.

APPLICATIONS

- Medical catheters
- Sub-assembly aids
- Electrical
- Fiber optics

AVAILABLE PRODUCTS

- Extruded tubing
- Special profile
- Multi-lumens
- Monofilament
- Sub-Lite Wall™ tubing

QUICK SUMMARY OF PROPERTIES

- Enhanced lubricity
- Gamma sterilizable
- USP Class VI
- Variable durometers (Shore D hardness 35 to 72)
- Low water absorption
- Bondable

PEBX Glide™

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. Property characteristics are dramatically impacted by geometry and processing method, thus properties of extruded parts may vary. In some instances, data may not be available for publication and will be notated as "na" where applicable.

These tables are meant to serve as a general guideline only. Users should evaluate the material to determine suitability for their own particular application.

PHYSICAL	METHOD	35D PEBAX®	35D PEBX Glide™
Density (g/cm³)	ASTM D792	1.00	1.02
Water Absorption (%)	ASTM D7191-10	0.40	0.20

MECHANICAL	METHOD	35D PEBAX®	35D PEBX Glide™
Ultimate Tensile Strength (MPa)	Modified ASTM D638	39*	33
Elongation at Break (%)	Modified ASTM D638	>600	829
Flexural Modulus (MPa)	Modified ASTM D638	18	12
Coefficient of Friction (Static)	Modified ASTM D1894	1.052	0.406
Coefficient of Friction (Kinetic)	Modified ASTM D1894	0.973	0.412

THERMAL	METHOD	35D PEBAX®	35D PEBX Glide™
Melting Temp (°C)	ISO 11357	144	144

**35D Pebax® data tested per ISO 527 -1/-2*

Coefficient of Friction: Tested in accordance to a modified method based on ASTM D1894. The specimens were cut into 4x4 plaques and tested against a stainless-steel sled, weighing 201.31 grams. A speed of 5.9 inches (150 mm) per minute was used. No preload force or speed specified.

Tensile: Tested in accordance with ASTM D638, but modified for tubing samples. Parameters included a 2" gauge length, 100 lbf load cell and rate of 20"/min