

Surlyn® Ionomer Sheet

Transparent, ionomer-based sheet material for orthotics and prosthetics

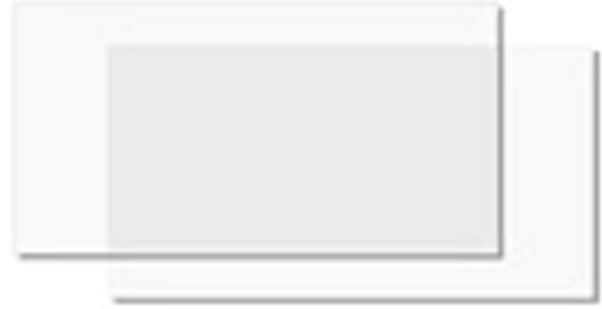
Description and Overview

Surlyn® ionomer sheet is a transparent, ionomer-based sheet material. Surlyn® is commonly used in orthotics and prosthetics applications for its chemical resistance, toughness and durability. Common applications include upper and lower extremity orthotics, body jackets, and flexible prosthetic sockets. Surlyn® features excellent contact clarity, long part life, and outstanding thermoforming characteristics. It features a heating temperature of 325-350F.

Surlyn® is the material of choice where more flexibility is required than that provided by polypropylene. Use of Surlyn® in body jackets and upper-limb orthoses seems to be especially desirable. Surlyn® is especially suited for burn patient applications because the healing process can be viewed through the orthosis. It is versatile in its manufacturing capabilities and can be easily machined.

Features

- Drape and blister formable
- High Impact resistance
- Good seaming characteristics
- High clarity
- High fatigue resistance
- Great thermoforming characteristics



*Transparent in color.

Typical Applications

- Orthotic and prosthetic applications
- Cranial helmets
- Upper limb orthoses
- Upper and lower extremity orthotics
- Scoliosis braces and body jackets
- Flexible prosthetic sockets

Properties and Specifications

Property	
Density (g/cm ³)	0.93
Hardness, Shore D	39 - 68
Flexural Modulus	4.3 - 68 ksi
Elongation at Break	285% - 660%
Melting Point	212F
Optical Haze (ASTM D1003A)	4 - 27
Melt Index (g/10min @190°C/21.6 kg)	5.2
Vicat Softening Point	174F

Properties are typical.
Field testing is recommended for any application.

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