

# PRODUCT DATA SHEET



**TPU FILM**

**Issue No. 01**

**Revision No. 00**

**Issue Date: 01 APRIL 2012**

**Revision Date: N/A**

**Product Name** : TPU Film **Colour** : Natural Clear/ Black/ Colours  
**Product Type** : Polyether TPU Film **Grade** : bluthane F-ES85XXYYZZ

## DESCRIPTION

bluthane **F- ET85** film is a polyether thermoplastic polyurethane film made from virgin polyether TPU granules and special additives using a specialized process. Due to their high resilience properties and their polyether backbone, they are used in demanding applications where excellent hydrolytic stability and fungus resistance are required. They inherently possess good moisture vapour transmission properties and are also useful as breathable films.

## APPLICATION

Sound absorbing Panels ( Fused / laminated on PU Foam )

Foam-in-place applications.

Fabric lamination.

Disposable medical gloves.

## CHARACTERISTICS

Good adhesion to PU foam

High resilience

Flexibility up to (-) 80 C

Good weldability

Good puncture resistance

Excellent hydrolytic stability

Microbe/ Fungus resistance

## TYPICAL PROPERTIES

Parameters	Values	Units
Specific Gravity	1.12	gms/cc
Hardness	85	Shore A
Tensile Strength	35	Mpa
Elongation at Break	700	%
Modulus -100 %	3	Mpa
Tg ( DSC)	-48	Deg C
Softening point	150	C

## Supply Form & Colours

Available in transparent and black ( Custom colours can also be made )

Film Thickness : 35 – 150 microns ( 0.035mm - 0.15 mm)

Width : 250mm – 1200mm

Form : In roll

## NOMENCLATURE OF GRADES

bluthane TPU films are given grade numbers based on the following characteristics / features ( alphanumeric style)

**F-ESXXYYZZ** and **F-ETXXYYZZ** (the abbreviations depicts the following:)

F - Film

ES - polyester TPU

ET - polyether TPU

XX - 85A hardness

YY - 35 microns thickness

ZZ - colour

For e.g : A grade **F-ET8530T** means it is a film based on a polyether TPU having a shore hardness of 85 A, 30 micron thickness and transparent / colourless.