

TECHNICAL DATA SHEET

TPU FILM ART 1801156

TPU film 1801156 is a polyester based TPU film which exhibits a range of impressive mechanical properties which all contribute to a film product with excellent toughness and durability. The film is produced with a gauge of 250 to 500 microns on rolls up to 1400mm in width, with a 76.2mm (ID) core. The film is available in a clear form offering good transparency, or can be pigmented to suit individual preferences. TPU film 1801156 has been designed to offer excellent resistance to styrene and high tear strength.

KEY ATTRIBUTES

- Excellent styrene resistance
- Very high tear resistance
- Good transparency in natural form
- Good oil and solvent resistance
- Excellent abrasion resistance
- Good elongation
- Very good weldability
- Good temperature resistance

GENERAL APPLICATIONS

- Chemical resistant lining
- Adhesive
- Coatings
- Solvent gel filled cushions
- Sealants
- Membranes

INDICATIVE PRODUCT

PROPERTIES	Unit	Test Standard	Result
Hardness (Shore)	A/D	DIN 53505	93/43
Specific Gravity	g/cm ³	DIN 53479	1.2
Approximate Yield	m ² /Kg/25 µm		33
Tensile Strength	MPa	DIN 53504	45
Tensile Modulus			
at 50% elongation	MPa	DIN 53504	8.8
at 100% elongation	MPa	DIN 53504	9.8
at 300% elongation	MPa	DIN 53504	17.6
Ultimate Elongation	%	DIN 53504	532
Compression Set			
70 hrs at 23 °C	%	DIN 53517	32.7
24 hrs at 70 °C	%	DIN 53517	78.0
Tear Resistance	kN/m	DIN 53515	100
Abrasion Loss	mm ³	DIN 53516	51
Rebound Resilience	%	DIN 53512	22.5
Brittle Point	°C	DIN 53546	-70
Vicat (Method A50)	°C	DIN 53460	75