

TPU FOIL (THE DIVA)^{F!} Product-no. U100

Version: 02/2014/A



You might ask yourself – why Diva? We think that hits the nail right on the head! TPU is amazingly versatile – whether we talk about durability, chemical resistance or variety of available types. This is the good news. However TPU is – like a diva – extremely difficult to process in extrusion and demands a lot of attention and experience.

WORTH KNOWING

- TPU foils have rubbery-elastic properties.
- TPU foils are characterised by their pleasant/agreeable haptic.
- The chemical resistance ranks among the best in the plastics family – but it still can be easily printed on.
- TPU foils are extremely resistant.
- delivered in jumbo rolls or ready-made according to customer requirements

WHERE THE FOIL CREATES ADDED VALUE

The U100 is a quite hard TPU foil and can be used for applications such as:

- as a transparent and highly wear-resistant surface
- dental technology
- decor carrier for back-injection moulding

WHAT THE FOIL IS CAPABLE OF

Our F&E laboratory has identified the following additional properties:

- very wear-resistant
- extremely high chemical resistance
- very good transparency
- very good scratch resistance

WHAT THE FOIL IS MADE OF

The U100 is a hard monofoil made of TPU.

YOUR EXPERTISE IS IN DEMAND!

The application range could not be more versatile! Regardless if it's in dental technology or as a layer for protection vests. But maybe you can still surprise us and your application idea is completely new to us.

THE DIVA Product-no. U100

1. GENERAL PROPERTIES AND DIMENSIONS

PHYSICAL PROPERTIES	UNIT	VALUE	STANDARD
Specific weight	g/cm ³	1,2 ± 1 %	
Tensile strength	MPa	≥ 50	ISO 527
Elongation at break	%	≥ 150	ISO 527
Surface resistivity	Ohm	≥ 10 ¹¹	ASTM D257
Vicat softening point	°C	100	ISO306
Colour / surface	natural, other colours available (1 side glossy / 1 side matt)		
THICKNESS SPECIFICATION	UNIT	VALUE	
Thickness range	mm	0,15 to 2,5	
Thickness tolerance	%	max ± 5	
SPECIFICATION JUMBO ROLLS	UNIT	VALUE	
Standard width	mm	600	
Width tolerance	mm	± 2	
LENGTH SPECIFICATION	UNIT	VALUE	
Minimum length	m	500	
Length tolerance	m	± 5	
STORAGE CONDITIONS	UNIT	VALUE	
Temperature	°C	10 to 45	
Humidity	% RH	max. 70	
Shelf life	Months	12 after production date under below mentioned storage conditions	
Please avoid direct sunlight or UV-light during storage. The foil U100 shall only be stored in the original packaging.			