



Hostaphan® TBL

Ductile milky white film for steel lamination

Hostaphan® TBL is a milky white biaxially oriented film made of polyethylene terephthalate (PET), which is characterised by outstanding physical properties.

Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	15	N/mm ²	170	210	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	15	%	160	100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	15	N/mm ²	4000	4800	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	15	%	1.2	1.0	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	15	%	78		ASTM-D 1003-61 method A	-
Haze	15	%	60		ASTM-D 1003-61 method A	Enlarged measurement angle
SURFACE						
Gloss	15	-	120		DIN 67530	Measuring angle 20°
Roughness Ra value Surface 1 Surface 2	15	nm			DIN 4768	Cut off 0.25 mm
			35			
			50			
PHYSICAL/CHEMICAL						
Density	15	g/cm ³	1.4		ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

Delivery program Hostaphan® TBL

Thickness μm	Yield		Roll length <i>m</i>	Roll-diameter <i>mm</i>
	<i>g/m²</i>	<i>m²/kg</i>		
15	21	48	On request	On request

Core diameter: 152.4 mm (6")



HOSTAPHAN®

This data sheet reflects our state of knowledge at the time this was prepared. The purpose is to provide an overview of the characteristics of our products and their potential uses. The values given reflect the typical characteristics of the film. They are not specification limits. They are neither a guarantee of specific properties nor the suitability of products in specific applications. The user must observe industrial property rights, such as patents or trademarks. The quality of our products is covered by the terms of the General Conditions of Sale of MITSUBISHI POLYESTER FILM GmbH.

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