



MITSUBISHI
CHEMICAL
GROUP

HOSTAPHAN®

Hostaphan® WDW and WDW CSRE 12-36

White film

Hostaphan® WDW/WDW CSRE is a white, biaxially oriented film, made of polyethylene terephthalate (PET). The material has a high dimensional stability and excellent mechanical strength. Hostaphan WDW CSRE is one side chemically treated for improved adhesion of solvent based coatings and printing inks.

Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	12 23 36	N/mm ²	200 165 170	240 250 255	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12 23 36	%	110 160 170	75 85 85	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young’s Modulus	12 23 36	N/mm ²	4500 4000 4000	5200 5600 5800	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12 23 36	%	1.2 1.0 1.0	1.2 1.0 1.0	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	12 23 36	%	55 43 34		ASTM-D 1003-61 method A	-
SURFACE						
Coefficient of friction (static)	12, 23 36	-	0.3 0.3		DIN53375 or ASTM-D 1894	-
PHYSICAL/CHEMICAL						
Density	12, 23, 36	g/cm ³	1.46		ASTM-D 1505-68 method C	23°C
BARRIER						
Air	12, 23, 36	cm ³ /m ² x d x bar	60/30/20		DIN 53380	23°C, 0% r.h.
Oxygen	12, 23, 36	cm ³ /m ² x d x bar	110/60/37		DIN 53380	23°C, 50% r.h.
Water vapour	12, 23, 36	g/m ² x d	16/8/5		DIN 53122	23°C, 85% r.h.
Nitrogen	12, 23, 36	cm ³ /m ² x d x bar	35/18/12		DIN 53380	23°C, 0% r.h.
Carbon dioxide	12, 23, 36	cm ³ /m ² x d x bar	500/260/167		DIN 53380	23°C, 0% r.h.

MD = Machine direction, TD = Transverse direction



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Delivery program Hostaphan® WDW and WDW CSRE 12-36

Thickness <i>μm</i>	Yield		Roll length <i>m</i>	Roll- diameter <i>mm</i>
	<i>g/m²</i>	<i>m²/kg</i>		
12	17.5	57	On request	On request
23	33.6	30		
36	52.5	19		

Core diameter: 152.4 mm (6")

This Hostaphan® film is permitted for food contact according to the current version of EU Regulation 1935/2004 and 10/2011 as well as FDA regulation 21 CFR 177.1630 under the conditions set out in our current Declaration of Compliance. Before using this Hostaphan® film in a food contact article, please request this Declaration of Compliance.

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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