

Mitsubishi Hostaphan® WN, 125 micron Nominal Thickness Translucent White Polyethylene Terephthalate Film

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Hostaphan® WN is a white film made of polyethylene terephthalate (PET) and is well suited for electrical insulating of machines and appliances. The high dielectric strength and large volume resistance of Hostaphan® WN make it possible to use the film as a high-quality insulation material. Applications: Insulation of winding heads Single phase insulation Slot insulation Ballasts Information provided by Mitsubishi Polyester Film

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsubishi-Hostaphan-WN-125-micron-Nominal-Thickness-Translucent-White-Polyethylene-Terephthalate-Film.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	DIN 40634
	@Temperature 150 Â°C, Time 900 sec	@Temperature 302 Â°F, Time 0.250 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DIN 40634
	@Temperature 150 Â°C, Time 900 sec	@Temperature 302 Â°F, Time 0.250 hour	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	200 MPa	29000 psi	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Tensile Strength at Yield, TD	230 MPa	33400 psi	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Elongation at Break, MD	>= 170 %	>= 170 %	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Elongation at Break, TD	120 %	120 %	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	DIN 40634 or VDE 0345 in air or ASTM D150
	@Frequency 50.0 Hz, Temperature 23.0 Â°C	@Frequency 50.0 Hz, Temperature 73.4 Â°F	
	3.3	3.3	DIN 40634 or VDE 0345 in air or ASTM D150
	@Frequency 1000 Hz, Temperature 23.0 Â°C	@Frequency 1000 Hz, Temperature 73.4 Â°F	
	3.6	3.6	DIN 40634 or VDE 0345 in air or ASTM D150
	@Frequency 50.0 Hz, Temperature 150 Â°C	@Frequency 50.0 Hz, Temperature 302 Â°F	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 50.0 Hz, Temperature 23.0 Â°C	@Frequency 50.0 Hz, Temperature 73.4 Â°F	tand; DIN 40634 or VDE 0345 in air or ASTM D149
	0.0048	0.0048	tand; DIN 40634 or VDE 0345 in air or ASTM D149
	@Frequency 50.0 Hz, Temperature 150 Â°C	@Frequency 50.0 Hz, Temperature 302 Â°F	
	0.0052	0.0052	tand; DIN 40634 or VDE 0345 in air or ASTM D149
	@Frequency 1000 Hz, Temperature 23.0 Â°C	@Frequency 1000 Hz, Temperature 73.4 Â°F	

Descriptive Properties	Value	Comments
Behavior Under the Influence of Partial Discharges (Min.)	900	DIN 53485 or VDE 0303/part 7; Contact method, 40KV/mm
Conductivity of Aqueous Extract (ÂµS/cm)	2	DIN 40634 or VDE 0345; 1 kHz
F5-value (MPa)	105	
Frigen Extract (%)	0.05	DIN 8944; Cold extraction
Insulation Class in Electrical Engineering	B	DIN 57530 or VDE 0530, main list
Trichloroethylene- Extract (%)	0.2	DIN 8943; Extracted in Soxhalet apparatus for 2h. Boiled down for 15h at 105Â°C

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