

Mitsubishi Hostaphan® WN, 190 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-190-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 Å°C, Time 900 sec	@Temperature 302 Å°F, Time 0.250 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DIN 40634
	@Temperature 150 Å°C, Time 900 sec	@Temperature 302 Å°F, Time 0.250 hour	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DC; DIN 40634 or VDE 0345 in air or ASTM D257
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	1.00e+18 ohm-cm	1.00e+18 ohm-cm	DC; DIN 40634 or VDE 0345 in air or ASTM D257
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	75% r.h.; DIN 53482 or VDE 0303/part 3 or ASTM D257
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	1.00e+14 ohm	1.00e+14 ohm	50% r.h.; DIN 53482 or VDE 0303/part 3 or ASTM D257
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	>= 5.00e+14 ohm	>= 5.00e+14 ohm	25% r.h.; DIN 53482 or VDE 0303/part 3 or ASTM D257
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Dielectric Constant	3.3	3.3	DIN 40634 or VDE 0345 in air or ASTM D150
	@Frequency 50.0 Hz, Temperature 23.0 Å°C	@Frequency 50.0 Hz, Temperature 73.4 Å°F	

Electrical Properties	3.3 Metric	3.3 English	Comments
	@Frequency 1000 Hz, Temperature 23.0 Å°C	@Frequency 1000 Hz, Temperature 73.4 Å°F	DIN 40634 or VDE 0345 in air or ASTM D150
	3.6 @Frequency 50.0 Hz, Temperature 150 Å°C	3.6 @Frequency 50.0 Hz, Temperature 302 Å°F	DIN 40634 or VDE 0345 in air or ASTM D150
Dielectric Strength	420 kV/mm @Temperature 23.0 Å°C	10700 kV/in @Temperature 73.4 Å°F	DC; DIN 40634 or VDE 0345 in air or ASTM D149
	135 kV/mm @Frequency 50.0 Hz, Temperature 150 Å°C	3430 kV/in @Frequency 50.0 Hz, Temperature 302 Å°F	DIN 40634 or VDE 0345 in air or ASTM D149
	150 kV/mm @Frequency 50.0 Hz, Temperature 23.0 Å°C	3810 kV/in @Frequency 50.0 Hz, Temperature 73.4 Å°F	DIN 40634 or VDE 0345 in air or ASTM D149
Dissipation Factor	0.0020 @Frequency 50.0 Hz, Temperature 23.0 Å°C	0.0020 @Frequency 50.0 Hz, Temperature 73.4 Å°F	tand; DIN 40634 or VDE 0345 in air or ASTM D149
	0.0048 @Frequency 50.0 Hz, Temperature 150 Å°C	0.0048 @Frequency 50.0 Hz, Temperature 302 Å°F	tand; DIN 40634 or VDE 0345 in air or ASTM D149
	0.0052 @Frequency 1000 Hz, Temperature 23.0 Å°C	0.0052 @Frequency 1000 Hz, Temperature 73.4 Å°F	tand; DIN 40634 or VDE 0345 in air or ASTM D149

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 (ÅµS/cm)	2	DIN 40634 or VDE 0345; 1 kHz
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 105Å°C

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