

Mitsubishi Hostaphan® RN, 190 micron Nominal Thickness Universal Polyethylene Terephthalate Film

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

Material Notes:

Hostaphan® RN is a biaxially oriented film made of polyethylene terephthalate (PET) and characterized by outstanding physical properties. Applications: Films for industrial applications Coating Laminating Metallizing Printing Decorative films Gloss laminations Adhesive tapes Adhesive films Insulation tapes Electrical insulation Flexible printed circuits Transformers and coils Reprography Base for color printing Carrier film for flexible printing plates Drafting film/engineering

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsubishi-Hostaphan-RN-190-micron-Nominal-Thickness-Universal-Polyethylene-Terephthalate-Film.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc @Temperature 23.0 °C	0.0506 lb/in ³ @Temperature 73.4 °F	ASTM D1505-68, method C
Water Absorption	0.50 % @Temperature 23.0 °C	0.50 % @Temperature 73.4 °F	4 days in water; ASTM D570
Linear Mold Shrinkage	0.010 cm/cm @Temperature 150 °C, Time 900 sec	0.010 in/in @Temperature 302 °F, Time 0.250 hour	DIN 40634
Linear Mold Shrinkage, Transverse	0.0030 cm/cm @Temperature 150 °C, Time 900 sec	0.0030 in/in @Temperature 302 °F, Time 0.250 hour	DIN 40634

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	150 MPa	21800 psi	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Tensile Strength at Yield, TD	200 MPa	29000 psi	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Elongation at Break, MD	>= 200 %	>= 200 %	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Elongation at Break, TD	140 %	140 %	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Modulus of Elasticity	3.60 GPa @Temperature 23.0 °C	522 ksi @Temperature 73.4 °F	MD; Test speed 1%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
	4.30 GPa	624 ksi	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	TD: Test speed 1%/min.; 50% r.h.; ISO 527-1; ISO 527-3; Sample type 2
Coefficient of Friction, Static	0.40	0.40	DIN 53375 or ASTM D1894

Optical Properties	Metric	English	Comments
Haze	25 %	25 %	Enlarged measurement angle; ASTM D1003-61, method A

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9	2.9	
	@Frequency 2.40e+8 Hz, Temperature 23.0 Â°C	@Frequency 2.40e+8 Hz, Temperature 73.4 Â°F	DIN 40634 or VDE 0345 in air
	2.9	2.9	
	@Frequency 9.30e+9 Hz, Temperature 23.0 Â°C	@Frequency 9.30e+9 Hz, Temperature 73.4 Â°F	DIN 40634 or VDE 0345 in air
	3.2	3.2	
	@Frequency 1.00e+6 Hz, Temperature 23.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 73.4 Â°F	DIN 40634 or VDE 0345 in air
Dielectric Strength	3.3	3.3	
	@Frequency 50.0 Hz, Temperature 23.0 Â°C	@Frequency 50.0 Hz, Temperature 73.4 Â°F	DIN 40634 or VDE 0345 in air
	3.3	3.3	
	@Frequency 1000 Hz, Temperature 23.0 Â°C	@Frequency 1000 Hz, Temperature 73.4 Â°F	DIN 40634 or VDE 0345 in air
	3.6	3.6	
	@Frequency 50.0 Hz, Temperature 150 Â°C	@Frequency 50.0 Hz, Temperature 302 Â°F	DIN 40634 or VDE 0345 in air
Dielectric Strength	450 kV/mm	11400 kV/in	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	DC; DIN 40634 or VDE 0345 in air
	135 kV/mm	3430 kV/in	
	@Frequency 50.0 Hz, Temperature 150 Â°C	@Frequency 50.0 Hz, Temperature 302 Â°F	DIN 40634 or VDE 0345 in air
	150 kV/mm	3810 kV/in	
	@Frequency 50.0 Hz, Temperature 23.0 Â°C	@Frequency 50.0 Hz, Temperature 73.4 Â°F	DIN 40634 or VDE 0345 in air

Descriptive Properties	Value	Comments
Conductivity of Aqueous Extract (ÅµS/cm)	2	DIN 40634 or VDE 0345; 1 kHz
F5-value (MPa)	105	ISO 527-1, ISO 527-3; Sample type 2; MD; Test speed 100%/min.; 23Å°C, 50% r.h.
	105	ISO 527-1, ISO 527-3; Sample type 2; TD; Test speed 100%/min.; 23Å°C, 50% r.h.
Frigen Extract (%)	0.05	DIN 8944; Cold extraction
Trichloroethylene- Extract (%)	0.2	DIN 8943; Extracted in Soxhalet apparatus for 2h. Boiled down for 15h at 105Å°C

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