

Mitsubishi Hostaphan® RN, 12 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 transparent, biaxially oriented film made of polyethylene terephthalate (PET) and characterized by outstanding physical properties. Hostaphan® RN is the standard product for the following applications: Films for packaging Coating Laminating Metallizing Printing Decorative films Gloss laminations Adhesive tapes Insulation tapes Release Transfer film Release film for thermosetting resins Hot stamping / Roll leaf Information provided by Mitsubishi Polyester Film

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsubishi-Hostaphan-RN-12-micron-Nominal-Thickness-Universal-Polyethylene-Terephthalate-Film.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D1505-68, method C
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Permeability	16	16	Water vapor; 85% r.h.; DIN 53122
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	35	35	Nitrogen; 0% r.h.; DIN 53380
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	60	60	Air; 0% r.h.; DIN 53380
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
110	110	Oxygen; 50% r.h.; DIN 53380	
@Temperature 23.0 Å°C	@Temperature 73.4 Å°F		
Linear Mold Shrinkage	500	500	Carbon dioxide; 0% r.h.; DIN 53380
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	DIN 40634
	@Temperature 150 Å°C, Time 900 sec	@Temperature 302 Å°F, Time 0.250 hour	
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	DIN 40634
	@Temperature 150 Å°C, Time 900 sec	@Temperature 302 Å°F, Time 0.250 hour	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	230 MPa	33400 psi	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Tensile Strength at Yield, TD	260 MPa	37700 psi	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Elongation at Break, MD	>= 110 %	>= 110 %	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Film Elongation at Break, TD	100 %	100 %	Test speed 100%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
Modulus of Elasticity	4.40 GPa	638 ksi	MD; Test speed 1%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	5.00 GPa	725 ksi	TD; Test speed 1%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Coefficient of Friction, Static	0.40	0.40	DIN 53375 or ASTM D1894

Optical Properties	Metric	English	Comments
Haze	2.5 %	2.5 %	Enlarged measurement angle; ASTM D1003-61, method A
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
F5-value (MPa)	105	ISO 527-1, ISO 527-3; Sample type 2; TD; Test speed 1%/min.; 23Å°C, 50% r.h.
	110	ISO 527-1, ISO 527-3; Sample type 2; MD; Test speed 1%/min.; 23Å°C, 50% r.h.

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