

Mitsubishi Hostaphan® RN, 23 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-23-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
Linear Mold Shrinkage	0.013 cm/cm @Temperature 150 °C, Time 900 sec	0.013 in/in @Temperature 302 °F, Time 0.250 hour	DIN 40634
Linear Mold Shrinkage, Transverse	0.0010 cm/cm @Temperature 150 °C, Time 900 sec	0.0010 in/in @Temperature 302 °F, Time 0.250 hour	DIN 40634

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 @Temperature 23.0 °C	638 ksi @Temperature 73.4 °F	MD; Test speed 1%/min.; 50% r.h.; ISO 527-1, ISO 527-3; Sample type 2
	5.00 GPa @Temperature 23.0 °C	725 ksi @Temperature 73.4 °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	7.0 %	7.0 %	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 100%/min.; 23Â°C, 50% r.h.
	110	ISO 527-1, ISO 527-3; Sample type 2; MD; Test speed 100%/min.; 23Â°C, 50% r.h.

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