

## Mitsubishi Hostaphan® RN, 350 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-350-micron-Nominal-Thickness-Universal-Polyethylene-Terephthalate-Film.php](http://www.lookpolymers.com/polymer_Mitsubishi-Hostaphan-RN-350-micron-Nominal-Thickness-Universal-Polyethylene-Terephthalate-Film.php)

| Physical Properties               | Metric  | English  | Comments                   |
|-----------------------------------|---|--|----------------------------|
| Density                           | 1.40 g/cc<br>@Temperature 23.0<br>°C                | 0.0506 lb/in <sup>3</sup><br>@Temperature 73.4 °F      | ASTM D1505-68, method C    |
| Water Absorption                  | 0.50 %<br>@Temperature 23.0<br>°C                   | 0.50 %<br>@Temperature 73.4 °F                         | 4 days in water; ASTM D570 |
| Linear Mold Shrinkage             | 0.010 cm/cm<br>@Temperature 150 °C,<br>Time 900 sec | 0.010 in/in<br>@Temperature 302 °F,<br>Time 0.250 hour | DIN 40634                  |
| Linear Mold Shrinkage, Transverse | 0.010 cm/cm<br>@Temperature 150 °C,<br>Time 900 sec | 0.010 in/in<br>@Temperature 302 °F,<br>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<br>@Temperature 23.0<br>°C | 522 ksi<br>@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<br>@ Temperature 23.0<br>Â°C | English<br>@ Temperature 73.4 Â°F | Comments<br>TD; Test speed 1%/min.; 50% r.h.; ISO<br>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               | 40 %   | 40 %    | Enlarged measurement angle; ASTM<br>D1003-61, method A |

| Electrical Properties                       | Metric  | English   | Comments                     |
|---|---|---|------------------------------|
| Dielectric Constant                         | 2.9   | 2.9   | DIN 40634 or VDE 0345 in air |
|   | @Frequency 2.40e+8<br>Hz,<br>Temperature 23.0 Â°C | @Frequency 2.40e+8<br>Hz,<br>Temperature 73.4 Â°F |                              |
|   | 2.9   | 2.9   | DIN 40634 or VDE 0345 in air |
|   | @Frequency 9.30e+9<br>Hz,<br>Temperature 23.0 Â°C | @Frequency 9.30e+9<br>Hz,<br>Temperature 73.4 Â°F |                              |
|   | 3.2   | 3.2   | DIN 40634 or VDE 0345 in air |
|   | @Frequency 1.00e+6<br>Hz,<br>Temperature 23.0 Â°C | @Frequency 1.00e+6<br>Hz,<br>Temperature 73.4 Â°F |                              |
|   | 3.3   | 3.3   | DIN 40634 or VDE 0345 in air |
| @Frequency 50.0 Hz,<br>Temperature 23.0 Â°C | @Frequency 50.0 Hz,<br>Temperature 73.4 Â°F       |   |                              |
| 3.3   | 3.3   | DIN 40634 or VDE 0345 in air                      |                              |
| @Frequency 1000 Hz,<br>Temperature 23.0 Â°C | @Frequency 1000 Hz,<br>Temperature 73.4 Â°F       |   |                              |
| 3.6   | 3.6   | DIN 40634 or VDE 0345 in air                      |                              |
| @Frequency 50.0 Hz,<br>Temperature 150 Â°C  | @Frequency 50.0 Hz,<br>Temperature 302 Â°F        |   |                              |

| Descriptive Properties                      | Value | Comments  |
|---|-------|---|
| Conductivity of Aqueous Extract<br>(ÂµS/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.; 23Â°C, 50%<br>r.h. |
|   | 105   | ISO 527-1, ISO 527-3; Sample type 2; TD; Test speed 100%/min.; 23Â°C, 50% r.h.    |

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