

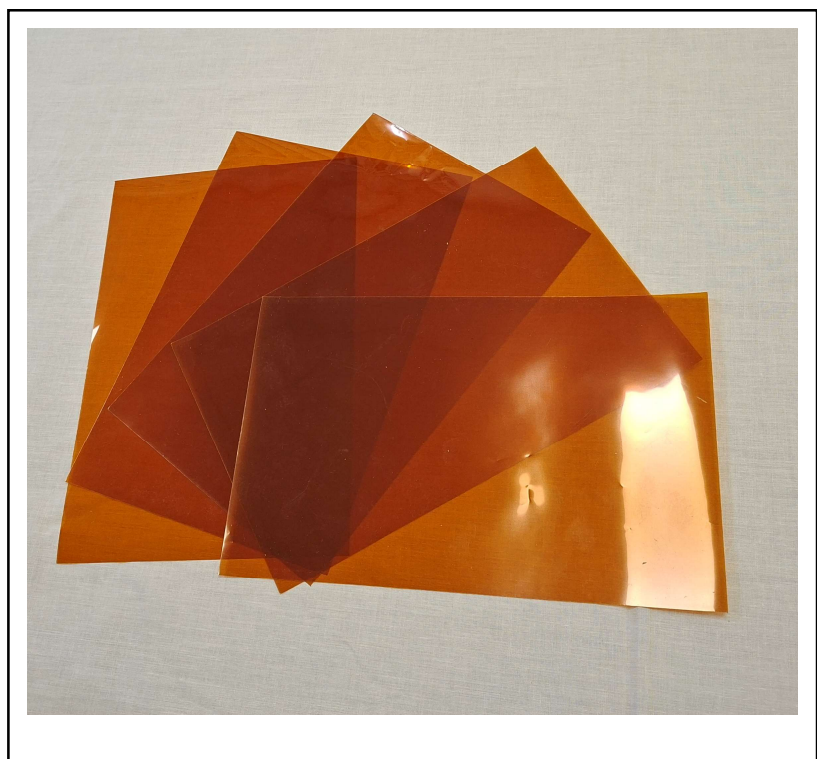
## Features

- High Temperature Resistance
- Excellent Dielectric Strength
- Limited Thermal Shrinkage
- Excellent Thermal Insulator
- Pack of 5 sheets

## HN THERMAL INSULATING FILM

**304 X 200 X 0.025MM**

RS Stock No.: 0588682



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without payi

ng a premium price.

## Product Description

*This general-purpose film has been used successfully in applications at temperatures as low as -269°C (-452°F) and as high as 400°C (752°F). HN film can be laminated, metallized, punched, formed or adhesive coated. It is the recommended choice for applications that require an all-polyimide film with an excellent balance of properties over a wide range of temperatures.*

*Can be used for Mechanical Parts, Electronic Parts, Electrical Insulation, Pressure Sensitive Tapes, Diaphragms, Manifolds, Etching and Shims*

## General Specifications

Density	1.42 g/cm <sup>3</sup>
Sheet/Pack Size	304 x 200mm, 5 sheets per pack
Material	HN THERMAL INSULATING FILM
Length	304mm
Width	200mm
Thickness	0.025mm

## Mechanical Specifications

Ultimate Tensile Strength	33,500 psi
Ultimate Elongation	72%
Tensile Modulus	400,000 psi
Coefficient of Friction, kinetic	0.48
Coefficient of Friction, static	0.63
Refractive Index	1.7
Poisson's Ratio	0.34

## Electrical Specifications

Dielectric Strength	303 V/um kV/mm (7700 V/mil)
Dielectric Constant	3.4
Dissipation Factor	0.0018
Volume Resistivity	1.5 x 10 <sup>17</sup> Ω•cm <sup>17</sup>

## Thermal Properties

Melting Point	None
Thermal Coefficient of Linear Expansion	20 ppm/°C
Coefficient of Thermal Conductivity	0.20 W/mK
Specific Heat	1.09 J/gK
Heat Sealability	Not heat sealable
Solder Float	Pass
Smoke Generation	D <sub>m</sub> < 1
Shrinkage 30 min at 150 °C 120 min at 400 °C	0.17 % 1.25 %
Limiting Oxygen Index	37-45%

## Approvals

Declarations	MFR Declaration of Conformity
Standards Met	ASTM D5213 (type 1, item A) requirements

## Similar Products

Stock No.	Brand	Product Name	Thickness (mm)	Thickness (mil)
0588682	RS PRO	HN THERMAL INSULATING FILM 304 X 200 X 0.025MM	0.025mm	1 mil
0588684	RS PRO	HN THERMAL INSULATING FILM 304 X 200 X 0.050MM	0.050mm	2 mil
0588684	RS PRO	HN THERMAL INSULATING FILM 304 X 200 X 0.075MM	0.075mm	3 mil