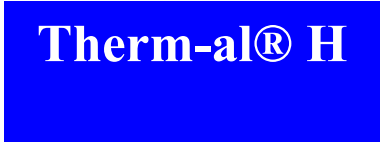


flexibles



Therm-al® H Varnished Glass

- Flexible, tough construction for ease of insertion
- Excellent punch-through and abrasion resistance
- High dielectric strength
- Low moisture absorption compared to paper laminates
- Class 180° C thermal properties
- Compatible with most varnish and resin systems
- Recognized in many UL 1446 insulation systems

General description

Therm-al® H is a series of polyester coated closed weave glass fabrics with 180°C thermal capability, good flexibility and tear strength, and exceptionally high tensile strength. Thermal aging tests conducted in accordance with both ASTM D902 (Volatility Index of Coated Woven Glass Cloth) and ASTM D1830 (Curved Electrode Test) have proven that Therm-al® H has a thermal endurance in excess of 50,000 hours at 180°C.

Application

Therm-al® H polyester coated glass cloth is recommended for a wide variety of uses in the motor and transformer industry including phase separators, slot liners, barrier and layer insulation, bus bar, and coil wrapping.

Features

Benefits

<ul style="list-style-type: none">• High temperature class (180°C)	<ul style="list-style-type: none">• Wide range of applications for motors and transformers as primary insulation up to 180°C• Replaces other laminates and papers in most secondary insulation applications in systems up to 220°C
<ul style="list-style-type: none">• Very Flexible	<ul style="list-style-type: none">• Easily conforms to various configurations
<ul style="list-style-type: none">• Wide range of thicknesses available (.005" - .030")	<ul style="list-style-type: none">• Optimize material usage for the application
<ul style="list-style-type: none">• Available with pressure sensitive adhesive	<ul style="list-style-type: none">• Aids in manufacturing• Excellent outer wrap for bobbin type transformers

flexibles

Therm-al® H

Therm-al® H Varnished Glass

Construction

Catalog Number	H5	H7	H10	H10-1	H15	H25	H30
Thickness (In. Nom.)	.005	.007	.010	.010	.015	.025	.030
Tolerance (In.)	±.001	±.001	±.001	±.001	±.0015	±.002	±.0020
Glass Cloth Thickness (In. Nom.)	.004	.004	.004	.007	.007	.015	.015

Technical Information: Typical Values

Approx. Weight (lbs/syds)	.30	.45	.60	.70	.95	1.65	
Tensile Strength (lbs per in. width)							
Warp	200	200	200	400	400	500	
Fill	140	140	160	280	280		
Elmedorf Tear Strength (Grams)							
Warp	400	400	400	1600	1600	1600+	
Fill	250	300	300	800	800		
Gurley Stiffness	125	185	200	700	700	3000	
Dielectric Strength (vpm) 1/4" Short time	1700	1700	1700	1100	1100	800	
Thermal Conductivity (W/mK)	.21	.22	.225		.23		

flexibles

Therm-al® H

Therm-al® H Varnished Glass

Application Method

Therm-al® H is available either plain or with pressure sensitive adhesive (with or without liner). Mica dusting is also available.

Shelf Life

Shelf life of Therm-al® H is in excess of one year when stored at room temperature.

Availability

These products are available as master rolls and in standard trimmed rolls 36" wide. Custom slitting and other packaging options available upon request.

Specifications

The properties shown in this data sheet are typical values only, and should not be used as a basis for preparing specifications. Contact our Customer Service department, (518) 344-7100 for assistance in preparation of specifications for your specific system application.

Safety Precautions

Material Safety Data Sheets defining the known hazards and describing safety precautions appropriate for this product are available upon request from Von Roll Isola USA, Inc., One West Campbell Road, Schenectady, New York 12306 (518) 344-7100. Similar information sheets for solvents and other chemicals used with this product may be obtained from the appropriate supplier and used accordingly.

DISCLAIMERS

The product properties set forth in this data sheet are based on the results of testing typical material produced by Von Roll Isola USA, Inc. Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to consideration of the use and/or manner of use of the product.

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