

HotMask™

Technical Data Sheet

December 8, 2009

HM350 HotMask

Description

R Tape's HM350 HotMask™ self-wound film consists of a 75 µm (3 mil) polyester PET film coated with a medium tack, heat-resistant pressure sensitive modified acrylic adhesive.

Construction

Facefilm: 75 µm (3 mil) clear siliconized polyester (PET) film.
Adhesive: Medium tack modified removable acrylic

Application

R Tape's versatile HotMask film can be used for multiple applications. In the manufacturing of heat transfer materials, R Tape's HotMask film serves as a carrier or release liner for heat activated polyurethane and vinyl films and flocking materials.

In the shop, after the fabricator computer-cuts the heat transfer material in reverse (wrong reading), R Tape's HotMask functions as an application tape to aid the transfer of the materials to textiles. In positioning the graphics, the weeded graphics are aligned facing the garment, while the polyester HotMask carrier is facing up toward the heated platten. During the heat transfer process, HotMask protects the heat activated film or flocking material, preventing discoloration and distortion, which can result from the intense heat of the hot press.

For printed graphics, R Tape's HotMask can also be used as a print protection masking as well as an application tape aiding alignment of the graphic. Simply laminate HotMask over the printed surface. Next, remove the polyester carrier or release liner on the heat transfer media. Then apply the printed graphic to the fabric. The polyester masking protects printed graphics from heat damage during the heating cycle. Following the heat cycle, remove R Tape's HotMask, while it is still warm. Prompt removal of the masking ensures clean removal, without any residue on the printed graphic.

Features

- During the heat process the HotMask protects the surface of heat transfer material from heat related discoloring or any other damage.
 - The polyester PET film of the HotMask withstands heat cycles as long as 60 seconds at 166° C (330° F).
 - After the heat transfer, HotMask removes easily without any adhesive residue. For best result remove the HotMask, while it is warm.
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Recommended use

- R Tape's HM350 HotMask™ is a medium tack tape, one in a series of heat transfer films. R Tape's product offering also includes a low tack and a high tack tapes.
- Heat-activated polyurethane and vinyl films typically require either a low tack or medium tack carrier, depending on the surface structure of the facestock and the desired release value.
- Generally, a higher tack tape, such as R Tape's HM375 HotMask™ is required for flocking material, depending on the roughness of the flocking structure.



PRODUCT CHARACTERISTICS

HM350 HOTMASK

Typical physical properties	Features	Test Method	Results
	Caliper, facefilm	ISO 534 (PSTC-33)	3 mils (75 microns)
	Caliper, facefilm + adhesive	ISO 534 (PSTC-33)	4.2 mils (105 microns)
	Dimensional stability	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hour at 71°C (160°F)	<1% MD
	Adhesion	PSTC-101 Method F; 90° to Stainless steel; 15 minute dwell	12.1 oz/in (1.324N/cm)
	Tensile (lb./in.)		30kpsi MD
	Elongation		170% at break
	Shelf life	Stored at 22°C (72°F)/ 50-55 % RH	1year (70°/50% RH) Store in its original packaging
	Process Cycle	Typical manual heat press	6-10 seconds @ 330°F

HM350 was formerly PEZ-3-SW-MT

Important Notice: All R Tape products are subject to continuous quality control throughout the manufacturing process and are warranted to be free from manufacturing defects. R Tape stands behind its products and will replace or credit any defective material. Because R Tape products are used for a variety of applications, the purchaser is responsible for determining the suitability and performance of this product for their specific purpose, prior to use and the purchaser shall assume all risks regarding such use.

Durability

Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in direct sunlight or when exposed to high temperatures, performance will be decreased.



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