

# HM430/HM650

## FILM-PTFE (HIGH-MODULUS—WHITE)

Saint-Gobain Performance Plastics CHR® HM430 and HM650 are manufactured from high-modulus PTFE (polytetrafluoroethylene) film with pressure-sensitive adhesive.

### Typical Properties

Product Number	HM430	HM650
Backing Material	Film-PTFE	Film-PTFE
Adhesive Type	Acrylic	Silicone
Total Thickness (in.)	.0035	.0065
Backing Thickness (in.)	.0020	.0050
Adhesive Thickness (in.)	.0015	.0015
Adhesion to Steel (oz./in.)	25	30
Tensile Strength (lbs./in.)	25	45
Dielectric Strength (volts)	8000	13500
Direct Electrolytic Corr.	1.0	1.0
Elongation (% at break)	150	200
Operating Temperature (°F)	-20 to 350	-100 to 500
Insulation Class (°C)	155	180
Color	White	White

Values shown are typical. Certified test reports for writing specifications are available.

**Applications**—HM430 and HM650 are often used as masking during metal bonding, roll covering on plastic extruders, and for fine wire harnesses. They are chosen for lay flat operations where anti-friction properties and solvent resistance are required.

**Features/Benefits**—The film of both HM430 and HM650 has been subjected to a special process that lowers its elongation and increases its breaking strength for easier handling. One side has an acrylic pressure sensitive adhesive and the other side offers low coefficient of friction film, which is thin and conformable. The backing offers

excellent high temperature resistance and is chemically inert. This tape construction is weather resistant, stable and non-toxic. HM650 meets the requirements of MIL-I-23594C Type 1, Class 4.

**Availability**—Factory stock for HM430 and HM650 is in master log form 36 yards long x 18" wide. Rolls can be slit 1/2" wide to 18" wide. For slit rolls under 1/2" wide, Saint-Gobain Performance Plastics recommends 18 yard length rolls. They are available with or without a liner.

Saint-Gobain Performance Plastics Corporation  
14 McCaffrey Street  
Hoosick Falls, NY 12090  
Customer Service: (800) 962-2666  
Tel: (518) 686-7301  
Fax: (800) 526-8479, (518) 686-4840

[www.fff.saint-gobain.com](http://www.fff.saint-gobain.com)

**Limited Warranty:** For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**NOTE:** Saint-Gobain Performance Plastics Corporation does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform its own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.

CHR® is a registered trademark  
©2004 Saint-Gobain Performance Plastics Corporation  
AFF-1112-PDF-0304-SGCS