

VAPORSAFE® RM

TIF Fumigation Barrier - Row Mulch Film

PROPERTIES	TEST METHOD	VAPORSAFE RM (1.1)		VAPORSAFE RM (1.2)	
		Imperial	Metric	Imperial	Metric
CONSTRUCTION		Multi-layer Barrier Film			
APPEARANCE		Varied			
THICKNESS, NOMINAL	ASTM D 5199	1.1 mil	0.03 mm	1.2 mil	0.03 mm
WEIGHT / AREA	ASTM 4321	6 lbs/MSF	29 g/m ²	7 lbs/MSF	34 g/m ²
*MASS TRANSFER COEFFICIENT		0.0001 mol/(s•m ²)/(mol/m ³)	0.0001 mol/(s•m ²)/(mol/m ³)	0.0001 mol/(s•m ²)/(mol/m ³)	0.0001 mol/(s•m ²)/(mol/m ³)
IMPACT RESISTANCE	ASTM D 1709 (A)	177 grams	177 grams	244 grams	244 grams
TENSILE STRENGTH @ BREAK	ASTM D 882	4 lbf/in MD 4 lbf/in TD	7 N/cm MD 7 N/cm TD	7 lbf/in MD 7 lbf/in TD	12 N/cm MD 12 N/cm TD
ELONGATION @ BREAK	ASTM D 882	450 % MD 541 % TD	450 % MD 541 % TD	600 % MD 625 % TD	600 % MD 625 % TD
PUNCTURE RESISTANCE	ASTM D 4833	4 lbf	18 N	5.6 lbf	25 N
**APPROXIMATE EXPOSED LONGEVITY		18 Months			
MAXIMUM STATIC USE TEMPERATURE		180° F	82° C	180° F	82° C
MINIMUM STATIC USE TEMPERATURE		-70° F	-57° C	-70° F	-57° C

* Test results listed are based on the following information: Overview of Recent Fumigant Emissions Research, Charles Smith, Health Effects Division, Office of Pesticide Programs, U.S. EPA, 2010 MBOA Conference

** Longevity varies with actual location and weather conditions, which include sun or shade, extreme heat or cold, wind, altitude, installation and many other variables. Because of these variables, we cannot determine exact longevity.



VaporSafe® RM is a seven layer co-extruded barrier films made from very flexible lineal low density polyethylene and an inner core of gas impermeable EVOH. High strength LLDPE provides exceptional tear and impact strengths to allow for ease of installation and long term performance. **VaporSafe® RM** contains thermal and UV stabilizers to increase outdoor longevity. Utilizing **VaporSafe® RM** (TIF) can maximize production acres significantly impacting your overall bottom line while reducing fumigant rates up to 50% without loss of efficacy or yield.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at www.RavenEFD.com

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