

VieTape FS5701

ENHANCED SEALABILITY

PROPERTY	TEST METHOD	VALUE		
PHYSICAL				
Density, kg /m ³ (lb. /ft ³)	ASTM D 3574-95, Test A	240 (15)	320 (20)	480 (30)
Tolerance, %		± 10		
Thickness, mm		4.78 - 12.70	1.57 - 3.18	0.79 - 1.14
(inches)		(0.188-0.500)	(0.062- 0.125)	(0.031-0.045)
Tolerance, %		± 10		± 20
Standard Color (Code)		Black (04)		
Compression Force Deflection, kPa (psi)	0.51 cm/min (0.2" /min.) Strain Rate Force Measured @25% Deflection	41 -83	76 -138	138 - 317
Typical, kPa (psi)		(6 -12) 64 (9.3)	(11 -20) 103 (15)	(20 -46) 193 (28)
Hardness, Durometer, Shore "O"	ASTM D 2240-97	18	24	55
Compression Set, % max. after 24 hour recovery	ASTM D 3574-95 Test D @23°C (73°F) ASTM D 3574-95 Test D @70°C (158°F) ASTM D 3574-95 Test J/Test D autoclaved 5 hrs @121°C (250°F)	5 10 5		
Dimensional Stability, % max. change	22 hrs @80°C (176°F) in a forced-air oven	± 2		
Tensile Strength, min. kPa (psi)	ASTM D 3574-75 Test E	276 (40)	517 (75)	827 (120)
Tensile Elongation, % min.	ASTM D 3574-75 Test E	100	100	100
Tear Strength, Min. kN/m (pli), Typical kN/m (pli)	ASTM D 264-91 Die C	1.1 (6) 1.8 (10)	1.4 (8) 2.3 (13)	2.6 (15) 3.2 (18)
ELECTRICAL AND THERMAL				
Dielectric Constant, K' ("DK")	ASTM D 150 measurements at 22°C (72°F) relative humidity 50% for 24 hrs.	1.71		
Dielectric Strength, kVm (volts/mil)	ASTM D 149-97a	1969 (50)		
Dissipation Factor, tan D ("DF")	ASTM D 150-98	0.05		
Volume Resistivity, ohm-cm	ASTM D 257-99	1 x 10 ¹²		
Surface Resistivity, ohm/sq.	ASTM D 257-99	2 x 10 ¹²		
Thermal Conductivity, W/m-C (BTU-in./hr/ft ² -F)	ASTM C 518-98	-	-	-
Coefficient of Thermal Expansion		2.3-3.1 x 10 ⁻⁴ in/in/°C (1.3-1.7x10 ⁻⁴ in/in/°F)		



PROPERTY	TEST METHOD	VALUE		
TEMPERATURE RESISTANCE				
Recommended Constant Use, max.	SAE J-2236	90°C (194°F)		
Recommended Intermittent Use, max.		121°C (250°F)		
Embrittlement	ASTM D 746-98	-		
Cold Flexibility	MIL-P-12420D 1991 @-40°C (-40°F)	Pass		
FLAMMABILITY AND OUTGASSING				
Flammability, mm (inches)	UL 94HBF (File E20305) (Pass ≥)	4.8 (0.188)		
	MVSS 302 (Pass ≥)	-		
	CSA Comp HBF (File 188149) (Pass ≥)	-		
Fogging	SAE J-1756 3 hrs @100°C (212°F)	-		
Outgassing, Total Mass Loss (TML) %	ASTM E 595-93 24 hrs @125°C (257°F) @ <7x10 ³ Pa	0.84	0.97	1.0
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.05	0.04	0.06
Outgassing, Water Vapor Regain (WVR) %		0.4	0.46	0.65
ENVIRONMENTAL				
Gasketing and Sealing	UL JMST2 (Consisting of UL50 and UL508) CAN/CSA - C22.2 No.94-M91	File MH15464 File 188149		
Moisture Absorption, High Humidity Exposure, % weight gain, typical	AMS 3568-95	3		
Water Absorption, Immersion Testing, % weight gain, typical	ASTM D 570-95	15	13	6
UV Resistance	ASTM G 53-96	-		
Ozone Resistance	GM 4486P-95	-		
Corrosion Resistance	AMS 3568-91	-		
Mildew/Bacteria Resistance	ASTM G 21	Good		
Staining	ASTM D 925	No Stain		
Skin Contact Irritation	Primary Skin Irritation Test (FHSA)	Pass		

NOTES:

- Represents testing not available at this time.
- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

The information contained in this Data Sheet is intended to assist you in designing with Vietape Material Technology Co., Ltd. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Foams for each application.

VIETAPE MATERIAL TECHNOLOGY CO., LTD

18F Tang Nhon Phu Street, Phuoc Long B District,
Thu Duc City, Ho Chi Minh City, Vietnam

info@vietape.com
(+84) 869 681639

www.vietape.com

