

## FOAM PAD (PAD2.25/20125-A)

### Technical Datasheet

PROPERTY	TEST METHOD	VALUE
<b>PHYSICAL</b>		<b>PAD2.25/20125</b>
Density, lb. / ft <sup>3</sup> (kg / m <sup>3</sup> )	ASTM D 3574-95, Test A	20 (320)
Tolerance, %		± 10
Thickness, inches		0.125
Tolerance, %		± 10
Standard Color (Code)		Black (04)
Compression Force Deflection, psi (kPa)	0.2" / min. Strain Rate Force Measured @ 25% Deflection	13 - 23 (90 - 159)
Typical psi (kPa)		17 (117)
Hardness, Durometer, Shore "O", Shore "A"	ASTM D 2240-97	24 18
Compression Set, % max.	ASTM D 1667-90 Test D @ 73°F (23°C) ASTM D 3574-95 Test D @ 158°F (70°C) ASTM D 3574-95 Test J/Test D autoclaved 5 hrs @ 250°F (121°C)	5 10 5
Dimensional Stability, % max. change	22 hrs @ 176°F (80°C) in a forced-air oven	± 1
Tensile Strength, Min. psi (kPa), Typical psi (kPa)	ASTM D 3574-75 Test E	120 (829) 145 (1003)
Tensile Elongation, % min., Typical	ASTM D 3574-75 Test E	100 135
Tear Strength, Min. pli (kN/m), Typical pli (kN/m)	ASTM D 264-91 Die C	10 (1.8) 16 (2.8)
<b>ELECTRICAL AND THERMAL</b>		
Dielectric Constant, K' ("DK")	ASTM D 150 measurements at 72°F (22°C) relative humidity 50% for 24 hrs.	1.63
Dielectric Strength, volts/mil	ASTM D 149-97a	50
Dissipation Factor, tan D ("DF")	ASTM D 150-98	0.05
Volume Resistivity, ohm-cm	ASTM D 257-99	2 x 10 <sup>12</sup>
Surface Resistivity, ohm/sq.	ASTM D 257-99	7 x 10 <sup>12</sup>
Thermal Conductivity, W/m-C (BTU-in./hr/ft <sup>2</sup> -F)	ASTM C 518-98	0.090 (0.63)
Coefficient of Thermal Expansion		2.3 - 3.1 x 10 <sup>-4</sup> in./in./°C

#### GEL-PAK

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Division of

# DELPHON

PROPERTY	TEST METHOD	VALUE
Density, lb. / ft <sup>3</sup> (kg /m <sup>3</sup> )	ASTM D 3574-95, Test A	20 (320)
<b>TEMPERATURE RESISTANCE</b>		
Recommended Constant Use, max.	SAE J-2236	194°F (90°C)
Recommended Intermittent Use, max.	ASTM D 746-98	250°F (121°C)
Embrittlement	ASTM D 746-98	-40°F (-40°C)
Cold Flexibility	MIL-P-12420D 1991 @ -40°F (40°C)	Pass
<b>FLAMMABILITY AND OUTGASSING</b>		
Flammability	UL 94HBF (File E20305) (Pass <input type="checkbox"/> )	0.062"
	MVSS 302 (Pass <input type="checkbox"/> )	0.062"
	CSA Comp HBF (File 188149) (Pass <input type="checkbox"/> )	0.062"
Fogging	SAE J-1756 3 hrs @ 212°F (100°C)	Pass
Outgassing, Total Mass Loss (TML) %	ASTM E 595-93 24 hrs @ 257°F (125°C) @ <7x10 <sup>-3</sup> Pa	0.8
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.05
Outgassing, Water Vapor Regain (WVR) %		0.3
<b>ENVIRONMENTAL</b>		
Gasketing and Sealing	UL JMST2 (Consisting of UL50 and UL508)  CAN/CSA – C22.2 No. 94-M91	File MH15464 File 188149
Water Absorption, High Humidity Exposure, % weight gain, typical	AMS 3568-95	2
Water Absorption, Immersion Testing, % weight gain, typical	ASTM D 570-95	5
UV Resistance	ASTM G 53-96	Good
Ozone Resistance	GM 4486P-95	Pass
Corrosion Resistance	AMS 3568-91	Pass
Mildew/Bacteria Resistance	ASTM G 21	Good
Staining	ASTM D 925	No Stain
Skin Contact Irritation	Primary Skin Irritation Test (FHSA)	Pass