

FOAM PAD (PAD2.25/15250-A)

Technical Datasheet

PROPERTY	TEST METHOD	VALUE
PHYSICAL		PAD2.25/15250
Density, lb. / ft ³ (kg / m ³)	ASTM D 3574-95, Test A	15 (240)
Tolerance, %		± 10
Thickness, inches		0.250
Tolerance, %		± 10
Standard Color (Code)		Black (04)
Compression Force Deflection, psi (kPa)	0.2" / min. Strain Rate Force Measured @ 25% Deflection	8 - 14 (55 - 97)
Typical psi (kPa)		10 (69)
Hardness, Durometer, Shore "O", Shore "A"	ASTM D 2240-97	18 13
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	80 (553) 95 (657)
Tensile Elongation, % min., Typical	ASTM D 3574-75 Test E	100 140
Tear Strength, Min. pli (kN/m), Typical pli (kN/m)	ASTM D 264-91 Die C	6 (1.1) 12 (2.1)
ELECTRICAL AND THERMAL		
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 ¹²
Surface Resistivity, ohm/sq.	ASTM D 257-99	7 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

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Division of

DELPHON

PROPERTY	TEST METHOD	VALUE
Density, lb. / ft ³ (kg /m ³)	ASTM D 3574-95, Test A	15 (240)
TEMPERATURE RESISTANCE		
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
FLAMMABILITY AND OUTGASSING		
Flammability	UL 94HBF (File E20305) (Pass <input type="checkbox"/>)	0.188"
	MVSS 302 (Pass <input type="checkbox"/>)	0.188"
	CSA Comp HBF (File 188149) (Pass <input type="checkbox"/>)	0.188"
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 ⁻³ Pa	0.6
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.04
Outgassing, Water Vapor Regain (WVR) %		0.1
ENVIRONMENTAL		
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	13
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