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enlighten-u[®] microcellular polyurethane

U7R300070426298

Cast on PSA

Typical Physical Properties

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, lb./ft ³ (kg/m ³) Tolerance, %	ASTM D3574 (1,2)	30 (480) ± 10
Thickness, inch (mm), foam only Tolerance, %	(2,5)	0.007 (0.17) ± 15
Standard Color (Pantone® code)		Black (0426)
Compression Force Deflection, psi (kPa) Typical psi	TA.XT.Plus Texture Analyser (3) at 25% compression	2 - 8 (13.8 - 55.2) 5
Compression Set, % max.	ASTM D3574-D (1,4) at 50% compression, 73°F (23°C)	5
	ASTM D3574-D (1,4) at 50% compression, 158°F (70°C)	10
ELECTRICAL AND THERMAL		
Dielectric Constant, K'	ASTM D 150-98	2.80
Dissipation Factor, tan D	ASTM D 150-98	0.16
Dielectric Strength, volts/mil	ASTM D149-09	42
Volume Resistivity, ohm-cm	ASTM D 257-07	9.93 x 10 ¹⁰
Surface Resistivity, ohms/square	ASTM D 257-07	9.68 x 10 ¹²
Coefficient of Thermal Expansion, in/in/°C	ASTM E 831-06	2.45 x 10 ⁻⁴
TEMPERATURE RESISTANCE		
Continuous Use Range	SAE-J-2236	-40° to 158°F (70°C)
Intermittent Use Maximum		250°F (121°C)
Low Temperature Flex	22 hr at -40°, mandrel diameter = 1 inch	No Cracking

The physical data reported above is for foam only.

- (1) Sample size is 1.5 inch diameter by approximately 0.5 inch stack height
- (2) All metric conversions are approximate
- (3) Single ply, 5 mm probe, at an applied strain rate equivalent to ASTM D3489
- (4) Ct method, percent of original thickness
- (5) ASTM D3574 method with the following exceptions: 1.5 inch diameter foot on digital thickness indicator with a force loading of 0.9 Newtons (91.8 grams-force) plus the 30 gram weight of the foot

NOTE: Information of a technical nature is based on laboratory tests which either GRISWOLD LLC conducts or sends to an independent laboratory for testing for determination of uses as requested in writing by customer. GRISWOLD LLC believes these to be reliable. However, GRISWOLD LLC has no control over the application of the material to, or part of, the final **product** and **therefore**, GRISWOLD LLC makes **no express or implied warranty of result, fitness or merchantability**. The customer should determine reliability for the end use or particular application.