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enlighten-u[®] microcellular polyurethane

U7Y20

Typical Physical Properties

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, lb./ft ³ (kg/m ³) Tolerance, %	ASTM D3574 (1,5)	20.0 (320) ± 10
Thickness, inches (mm) Tolerance, %	(5,6)	0.062 - 0.500 (1.6 - 12.7) ± 10
Standard Color (Pantone® code)		Black (0426)
Compression Force Deflection, psi (kPa) Typical psi (kPa)	ASTM D3489 (1,5) at 25% compression	13 - 23 (90 - 157) 14 (97)
Compression Set, % max. (Typical)	ASTM D3574-D (1,3) at 50% compression, 73°F (23°C)	5 (2.6)
	ASTM D3574-D (1,3) at 50% compression, 158°F (70°C)	10 (2.9)
	ASTM D3574-J2 & -D (1,3,4) Autoclave then 50% compression, 158°F (70°C)	5 (3.2)
Dimensional Stability, % max. change	24 hrs. at 194°F (90°C)	5
Tensile Strength, min. psi (kPa) Typical psi (kPa)	ASTM D3574-E Die A (5)	130 (897) 197 (1359)
Tensile Elongation, % min. Typical	ASTM D3574-E Die A (2)	120 155
Tear Strength, min. pli (kN/m) Typical pli (kN/m)	ASTM D624 Die C (5)	14 (2.5) 20 (3.5)
Resilience (Ball Rebound), %	ASTM D3574-H	14
TEMPERATURE RESISTANCE		
Continuous Use Range	SAE-J-2236	-40° to 225°F (107°C)
Intermittent Use Maximum		250°F (121°C)
Low Temperature Flex	Ford WSS-M2D496 and Chrysler MS-AY 549	No Cracking

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FLAMMABILITY AND OUTGASSING		
Flammability	FMVSS-302	Pass
	ISO 3795	Pass
	GM6090PB4A	Pass
Fogging (gloss), reflectivity visual	SAE J1756 Dec94	98 Dry Deposits
ENVIRONMENTAL		
Water Absorption	ASTM D570	Pass
Staining, visual	ASTM D925	No Staining
Solvent Resistance, visual	Immerse specimens in: petroleum light naphtha, trichloroethylene 50/50 mix, antifreeze & water (Ford spec), windshield washer solution (Ford spec), electrical grease (Ford spec), 50/50 mix soap & water	No Change
	Immerse specimens for 10 minutes then allow to evaporate. Solvents: 9981062 naphtha - interior applications. 9981194 aliphatic hydrocarbon with emulsifier - exterior applications. 9981062 aliphatic hydrocarbon with emulsifier - interior applications	No Change

- (1) Sample size is 1.5 inch diameter by approximately 0.5 inch stack height
- (2) Based on grip separation
- (3) Ct method, percent of original thickness
- (4) Autoclaved for 5 hours at 250°F then test D
- (5) All metric conversions are approximate
- (6) 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.