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**enlighten-d<sup>®</sup>** microcellular polyurethane

**U7H15**

Typical Physical Properties

PROPERTY	TEST METHOD	VALUE
<b>PHYSICAL</b>		
Density, lb./ft <sup>3</sup> (kg/m <sup>3</sup> ) Tolerance, %	ASTM D3574 (1,4)	15.0 (240) ± 10
Thickness, inches (mm) Tolerance, %	(4,5)	0.059 - 0.500 (1.50 - 12.70) ± 10
Standard Color (Pantone® code)		Black (0427)
Compression Force Deflection, psi kPa Typical psi (kPa)	ASTM D3574 (1,4) at 25% compression	20 - 50 (138 - 345) 32 (221)
Compression Set, % max.	ASTM D3574-D (1,3) at 50% compression, 158°F (70°C)	10
Dimensional Stability, % max. change	0.250 x 1 x 12 inch specimen, 22 hr at 181°F (83°C), then 1 hr at room temperature. Max. change in any dimension (length, width, thickness)	± 5
Tensile Strength, min. psi (kPa) Typical psi (kPa)	ASTM D3574-E Die A (4)	150 (1034) 157 (1083)
Tensile Elongation, % min. Typical	ASTM D3574-E Die A (2)	50 80
Tear Strength, min. pli (kN/m) Typical pli (kN/m)	ASTM D624 Die C (4)	11 (1.9) 19 (3.3)
Resilience (Ball Rebound), %	ASTM D3574-H	20
<b>TEMPERATURE RESISTANCE</b>		
Continuous Maximum Use		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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Typical Physical Properties

PROPERTY	TEST METHOD	VALUE
<b>FLAMMABILITY AND OUTGASSING</b>		
<b>Flammability</b>	FMVSS-302	Pass
	ISO 3795	Pass
<b>Fogging (gloss), reflectivity</b> visual	SAE J1756	99 (Pass) Some dry droplets
<b>ENVIRONMENTAL</b>		
<b>Staining, visual</b>	ASTM D925	None
<b>Solvent Resistance, visual</b>	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, some swelling with trichloroethylene
	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) All metric conversions are approximate
- (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.