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

**U5Y20**

Cast on 10 mil PET film  
 Typical Physical Properties

PROPERTY	TEST METHOD	VALUE
<b>PHYSICAL</b>		
Density, lb./ft <sup>3</sup> (kg/m <sup>3</sup> ) (foam only) Tolerance, %	ASTM D3574 (1,3)	20 (320) ± 10
Foam Thickness Tolerance, inches (foam & PET Film)	(4)	± 0.0015
Standard Color (Pantone® code)		Royal Blue (0647)
Compression Force Deflection, psi (kPa) Typical psi (kPa)	ASTM D3489 (1,3) at 25% compression	13 - 23 (90 - 157) 18 (124)
Compression Set, % max.	ASTM D3574-D (1,2) at 50% compression, 73°F (23°C)	5
	ASTM D3574-D (1,2) at 50% compression, 158°F (70°C)	10

The data reported above is for foam only. The table below shows typical physical property data for the PET film as reported by the manufacturer.

PROPERTY	TEST METHOD	VALUE
Density, (g/cm <sup>3</sup> )	ASTM D 1505	1.395
Tensile Strength, psi	DIN 53455	28,000
Ultimate Elongation, %	DIN 53455	115
Shrinkage, Machine Direction, %	DIN 40634 15 min. at 150°C	2.0
Yield Strength (F5), psi	DIN 53455	125
Coefficient of Friction A/B, Kinetic	ASTM D 1894	0.5

- (1) Sample size is 1.5 inch diameter by approximately 0.5 inch stack height
- (2) Ct method, percent of original thickness
- (3) All metric conversions are approximate
- (4) 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.