PORON®

Cellular Urethane Foams

PORON® 4701-60 Very High Modulus Grade (Very Firm) Preliminary Product Properties *(replaces 4701-12 & -13)*

PROPERTY	TEST METHOD	VALUE		
Density lb. / ft^3 (kg /m^3)	ASTM D3574 - Test A	15 (240)	20 (320)	25 (400)
Tolerance, %		± 10		
Thickness, inches (mm) (see standard availability listing)		0.125 (3,18) 0.250 (6,35)	0.062 (1,57) 0.125 (3,18) 0.250 (6,35)	0.031 (0,79) 0.062 (1,57) 0.125 (3,18)
Tolerance, %		± 10		± 15
Color (Standard Code) Special Colors Available		Black (1604)		
Compression Set, %, max.	ASTM D3574 - Test D @ 73°F (23°C) ASTM D3574 - Test D @ 158°F (70°C) ASTM D3574 - Test J / Test D after autoclaved 5 hrs. @ 250°F (121°C)	5 10 10		
Compression Force Deflection, psi, Average (kPa)	0.2" / min. Strain Rate. Force Measured @ 25% Deflection	37 (256)	55 (380)	93 (643)
Dimensional Stability, % max. change	22 hrs. @ 176°F (80°C) in a forced-air oven	5		
Flammability	MVSS 302	Pass		
Outgassing Total Mass Loss (TML), %, max. Collected Volatile Condensable Materials, (CVCM), %	ASTM E595 24 hrs. @ 257°F (125°C) @ <7X10^{-3} Pa	0.64 0.05	0.66 0.02	0.69 0.03
Tear Strength, pli, min. (kN/m)	ASTM D624 Die - C	14 (2.4)	18 (3.1)	25 (4.3)
Temperature Resistance Cold Flexibility Embrittlement Recommended Constant Use, max. Recommended Intermittent Use,max.	MIL-P-12420C @ -40°F (-40°C) ASTM D746	Pass -3°F (16°C) 158°F (70°C) 250°F (121°C)		
Tensile Elongation, %, min.	ASTM D3574 - Test E	50		
Tensile Strength, psi, min. (kPa)	ASTM D3574 - Test E	150 (1030)	200 (1382)	250 (1700)
Water Absorption, % wt. gain, max.	AMS 3568	2.2	1.9	2.0

The above data represents preliminary values. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The relative merits of materials for a specific application should be determined by your evaluation.

Notes:
1. All metric conversions are approximate.
2. Microgrinding of materials for improved thickness tolerance is available upon request for most products.