



Cellular Urethane Foams

PORON® 4701-40 Low Modulus Grade (Soft) (replaces 4701-01, 4716-01, -16 & -71)
Preliminary Product Properties

PROPERTY	TEST METHOD	VALUE	
Density, lb. / ft ³ (kg / m ³)	ASTM D3574 - Test A	15 (240)	20 (320)
Tolerance, %		± 10	
Thickness, inches (mm) (see standard availability listing)		0.188 (4,78)	0.062 (1,57)
		0.250 (6,35)	0.093 (2,36)
		0.375 (9,53)	0.125 (3,18)
		0.500 (12,70)	
Tolerance, %		± 10	
Standard Color, (Code) Note: Special Colors Available		Black (1604)	
Compression Set, %, max.	ASTM D3574 - Test D @ 73°F (23°C)	2	
	ASTM D3574 - Test D @ 158°F (70°C)	10	
	ASTM D3574 - Test J / Test D after autoclaved 5 hrs. @ 250°F (121°C)	5	
Compression Force Deflection, psi (kPa)	0.2" / min. Strain Rate. Force Measured @ 25% Deflection	4 - 8 (27 - 55)	7 - 13 (48 - 90)
Corrosion Resistance	AMS 3568	Pass	
Dimensional Stability, %, max. change	22 hrs. @ 176°F (80°C) in a forced-air oven	± 2.5	
Flammability	UL 94HBF MVSS 302	Listed Pass	
Fogging	SAE-J 1756 3 hrs. @ 212°F (100°C)	Pass	
Gasketing and Sealing	UL JMST2	Listed	
Hardness, Durometer	Shore "O"	12	17
Outgassing	ASTM E595		
Total Mass Loss (TML), %	24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	0.7	0.8
Collected Volatile Condensable Materials, (CVCN), %		0.04	0.04
Water Vapor Regain (WVR), %		0.29	0.27
Ozone Resistance	GM 4486P	Pass	
Staining	ASTM D925-88	No Stain	
Static Solvent Resistance	Specimens immersed for 10 min. in 75% Naptha, 25% 1,1,1-trichloroethane, then allowed to dry completely	No tackiness or surface deterioration	
additional solvent resistance: Antifreeze & Water 50/50 Windshield Washer Solution Electrical Grease Soap & Water 50/50			

Please see reverse side for additional data.

PORON® 4701-40 Low Modulus Grade (Soft) (replaces 4701-01, 4716-01, -16 & -71)
Preliminary Product Properties - Continued

PROPERTY	TEST METHOD	VALUE	
Density , lb. / ft ³ (kg /m ³)	ASTM D3574 - Test A	15 (240)	20 (320)
Surface Resistivity , ohm/sq. Volume Resistivity , ohm.cm	ASTM D257	2.2 x 10 ¹² 1.1 x 10 ¹²	
Tear Strength , pli (kN/m)	ASTM D624 - Die C	5.7 (1.0)	7.4 (1.3)
Temperature Resistance Cold Flexibility Embrittlement Recommended Constant Use, max. Recommended Intermittent Use, max.	MIL-P-12420C @ -40°F (-40°C) ASTM D746	Pass -40°F (-40°C) 158°F (70°C) 250°F (121°C)	
Tensile Elongation , %, min.	ASTM D3574 - Test E	100	
Tensile Strength , psi, min. (kPa)	ASTM D3574 - Test E	40 (276)	75 (518)
Coefficient of Thermal Expansion		2.3 - 3.1 x 10 ⁻⁴ in / in / °C	
UV Resistance	AMS G53	Good	
Water Absorption , % wt gain, max. Immersion Testing, % wt gain, max.	AMS 3568 ASTM D570	1.9 18.5	2 10.4

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.

PORON® is a registered trademark of Rogers Corporation