

PORON® 4701-30 Very Low Modulus Grade (Very Soft) (replaces 4701-59) **Preliminary Product Properties**

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)		0.188 (4,78)	0.062 (1,57)	0.035 (0,89)
		0.250 (6,35)	0.093 (2,36)	0.045 (1,14)
		0.375 (9,53)	0.125 (3,18)	
		0.500 (12,70)		
Tolerance, %		± 10		± 15
Standard Color , (Code) Note: Special Colors Available		Azure (1648)		
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	1 - 5 (7 - 35)	3 - 8 (21 - 55)	5 - 12 (35 - 83)
Corrosion Resistance	AMS 3568	Pass		
Dimensional Stability , % max. change	22 hrs @ 176°F (80°C) in a forced-air oven	± 4		
Flammability	UL 94HBF	Pass	Pass ≥ 0.093"	-
	MVSS 302	Pass		
Fogging	SAE-J1756 3 hrs. @ 212°F (100°C)	Pass		
Gasketing and Sealing	UL JMST2	Pass	Pass	Pass ≥ 0.045"
Hardness , Durometer	Shore "O"	< 3	8	16
Outgassing	ASTM E595			
Total Mass Loss (TML), %, max.	24 hrs. @ 257°F (125°C) @ < 7x10 ⁻³ Pa	0.8	1	1.3
Collected Volatile Condensable Materials (CVCM), %, max.		0.1	0.1	0.15
Water Vapor Regain (WVR), %		0.19	0.3	0.62
Surface Resistivity , ohm/sq.	ASTM D257	5.9 x 10 ¹¹		
Volume Resistivity , ohm.cm		3.1 x 10 ¹¹		
Tear Strength , pli (kN/m)	ASTM D624 - Die C	1 (0.2)	3 (0.5)	4 (0.7)
Temperature Resistance	MIL-P-12420C @ -40°F (-40°C) ASTM D746	Pass		
Cold Flexibility		-60°F (-51°C)		
Embrittlement		158°F (70°C)		
Recommended Constant Use, max.		250°F (121°C)		
Recommended Intermittent Use, max.				

Please see reverse side for additional data.

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Density, lb. / ft ³ (kg /m ³)	ASTM D3574 - Test A	15 (240)	20 (320)	25 (400)
Tensile Elongation, % min.	ASTM D3574 - Test E	100		
Tensile Strength, psi, min. (kPa)	ASTM D3574 - Test E	20 (138)	30 (207)	35 (242)
Coefficient of Thermal Expansion		2.3 - 3.1 x 10 ⁻⁴ in / in / °C		
UV Resistance	AMS G53	Good		
Water Absorption, % wt gain, max.	AMS 3568	2		
Immersion Testing, % wt gain, max.	ASTM D570	11.6	8.6	13.5

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.

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