

PORON® 4701-21 Low Porosity Grade (Soft) 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 (4.80) 0.250 (6.40) 0.375 (9.50) 0.500 (12.70)	0.06 (1.57) 2 (2.36) 0.09 (3.18) 3 0.12 5
Tolerance, %		± 10	
Standard Color, (Code)		Black (1604)	Black (1604)
Compression Set, % after 24 hour recovery, 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)	2 10 5	
Compression Force Deflection, psi (kPa)	0.2" / min. Strain Rate Force Measured @ 25% Deflection	5 - 10 (35 - 69)	9 - 16 (62 - 110)
Hardness, Durometer	Shore "O"	12	17
Outgassing, Total Mass Loss (TML), %, max.	ASTM E595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	1.5	
Tear Strength, pli, min. (kN/m)	ASTM D624 - Die C	6 (1.1)	8 (1.4)
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)	90 (620)
Water Absorption, Immersion Testing, % wt. gain, max.	ASTM D570	25	
Air Permeability, Gurley Densometer	PMU Test Method Time for 100cc of air to flow through	No movement after 4 min.	

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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