

PORON® 4701-V0-M Medium

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, kg/m ³ (lb./ft. ³)	ASTM D 3574-95, Test A	400 (25)
Tolerance, %		± 10
Thickness, mm (inches)		5 (0.197) 6 (0.236)
Tolerance, %		± 10
Standard Color (Code)		Smoke Gray (107)
Compression Force Deflection, kPa (psi)	0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection	41 - 110 (6 - 16)
Hardness, Durometer Shore OO	ASTM D2240-97	24
Compression Set, % max	ASTM D3574-95 Test D @ 23°C (73°F)	5
	ASTM D3574-95 Test D @ 70°C (158°F)	10
Tensile Strength, min. kPa (psi)	ASTM D3574-75 Test E	580 (84)
Tensile Elongation, % min.	ASTM D3574-75 Test E	55



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ELECTRICAL & THERMAL		
Dielectric Constant, K' ("DK")	ASTM D150 @ RT	~4.0 @ 20 Hz (~2.6 @ 1x10 ⁶ Hz)
Dielectric Strength, kV/mm	ASTM D149	1.5
Volume Resistivity, ohm-cm (Dry & 90% RH)	ASTM D257-99	~10 ¹¹
Surface Resistivity, ohm/sq.	ASTM D257-99	~10 ¹¹
Thermal Conductivity, W/m-K	ASTM 1530 @ RT	0.292
Coefficient of Thermal Expansion, mm/mmC	TMA @ 5°C /min Heating Rate	0.00031
Heat Capacity, J/cm ³ K	ISO/DIS 22007-2.2 (Hot Disk)	0.59
TEMPERATURE RESISTANCE		
Recommended Constant Use, max.	SAE J-2236 for 1008 hrs.	90°C (194°F)
Recommended Intermittent Use, max.	SAE J-2236 for 168 hrs.	121°C (250°F)
Embrittlement	ASTM D746-13	-20°C (-4°F)
Cold Flexibility	MIL-P-12420D -40°C (-40°F)	Pass
FLAMMABILITY		
Flame Resistance	UL 94 V-0 FMVSS 302	Pass Pass
ENVIRONMENTAL/OFFGASSING		
Water Absorption, Immersion Testing, High Humidity	ASTM D570 AMS 35688	25 <2
RoHS 2.0 Testing SGS Report		Pass
REACH Compliance		Pass

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

To order PORON materials, please contact our Sales Specialists at 860.928.3622 or via email at EMS_CT_cust_serv@rogerscorporation.com



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