

PORON® 4701-V0-M Medium – Data Sheet

PROPERTY	TEST METHOD	VALUE
<b>PHYSICAL</b>		
Density, kg /m <sup>3</sup> (lb. / ft <sup>3</sup> ) Tolerance, %	ASTM D 3574-95, Test A	400 (25) ± 10
Thickness, mm (inches) Tolerance, %		5 (0.197)   6 (0.236) ± 10
Standard Color (Code)		Smoke Gray (107)
Compression Force Deflection, kPa (psi)	0.51 cm/mm (0.2" / min) Strain Rate Force Measured @ 25% Deflection	41-110 (6-16)
Hardness, Durometer, Shore "OO",	ASTM D 2240-97	24
Compression Set, % max.	ASTM D 3574-95 Test D @ 23°C (73°) ASTM D 3574-95 Test D @ 70°C (158°F)	5 10
Tensile Strength, Min. kPa (psi)	ASTM D 3574-75 Test E	580 (84)
Tensile Elongation, % min.,	ASTM D 3574-75 Test E	55
<b>ELECTRICAL AND THERMAL</b>		
Dielectric Constant, K' ("DK")	ASTM D 150 at RT	~4.0 at 20 Hz (~2.6 at 1x10 <sup>6</sup> Hz)
Dielectric Strength, volts/mil	ASTM D 149	1.5
Volume Resistivity, ohm-cm (Dry and 90% RH)	ASTM D 257-99	~10 <sup>11</sup>
Surface Resistivity, ohm/sq.	ASTM D 257-99	~10 <sup>11</sup>
Thermal Conductivity, W/m-K	ASTM 1530 at RT	0.292
Coefficient of Thermal Expansion, mm/mmC	TMA at 5°C/min heating rate	0.00031
Heat Capacity, J/cm <sup>3</sup> K	ISO/DIS 22007-2.2 (Hot Disk)	0.59

The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. 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 or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' PORON Polyurethane Materials for each application. The Rogers logo, Helping power, protect, connect our world, and PORON are trademarks of Rogers Corporation or one of its subsidiaries. © 2013, 2014, 2018 Rogers Corporation, All rights reserved. Printed in the U.S.A. 0118-PDF Publication # 17-277

Helping power, protect, connect our world™

# PORON® 4701-V0-M Medium, Continued

PROPERTY	TEST METHOD	VALUE
<b>TEMPERATURE RESISTANCE</b>		
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 D 746-13	-20°C (-4°F)
Cold Flexibility	MIL-P-12420 D at -40°C (-40°F)	Pass
<b>FLAMMABILITY</b>		
Flame Resistance	UL 94 V-0	Pass
	UL 94 HF-1	Pass
	FMVSS 302	Pass
<b>ENVIRONMENTAL/OFFGASSING</b>		
RoHS 2.0 Testing SGS Report		Pass
Water Absorption, Immersion Testing High Humidity	ASTM D 570	25
	AMS 3568B	<2
REACH Compliance		Pass

Notes:

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

The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. 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 or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' PORON Polyurethane Materials for each application. The Rogers logo, Helping power, protect, connect our world, and PORON are trademarks of Rogers Corporation or one of its subsidiaries. © 2013, 2014, 2018 Rogers Corporation, All rights reserved. Printed in the U.S.A. 0118-PDF Publication # 17-277

Helping power, protect, connect our world™