

PORON[®] 4701-V0-M Medium

DATA SHEET

PROPERTY	TEST METHOD	PORON [®] V-0
FOAM PROPERTIES		
DENSITY, kg / m ³ (lb. / ft ³)	ASTM D 3574 Test A	400 (25)
Tolerance, %		±10
COMPRESSION FORCE DEFLECTION, kPa (psi)	Modified ASTM D 3574: PTP-0033 at 25% deflection	41 - 110 (6 - 16)
COMPRESSION SET, %	ASTM D 3574 Test D, 23°C	5
COMPRESSION SET, %	ASTM D 3574 Test D, 70°C	10
TENSILE, kPa (psi)	ASTM D 3574 Test E	Typical Value: 580 (84)
ELONGATION, %	ASTM D 3574 Test E	Typical Value: 111
HARDNESS, pts	SHORE O	Typical Value: 24
STANDARD COLOR (CODE)		Smoke Gray (107)
TEMPERATURE RANGE		
RECOMMENDED CONSTANT USE, Max °C (Max °F)	SAE J-2236 for 1008 hours	90 (194)
RECOMMENDED INTERMITTENT USE, Max °C (Max °F)	SAE J-2236 for 168 hours	121 (250)
BRITTLENESS TEMPERATURE BY IMPACT, °C (°F)	ASTM D 746-13	-20 (-4)
COLD FLEXIBILITY	MIL-P-12420 D at -40°C (-40°F)	PASS
FLAMMABILITY		
FLAME RESISTANCE	UL94 V-0	PASS
	UL94 HF-1	PASS
	FMVSS 302	PASS
ENVIRONMENTAL / OFFGASSING		
ROHS 2.0 TESTING SGS REPORT		PASS
REACH COMPLIANCE		PASS
WATER ABSORPTION, Typical %	AMS 3568B (High Humidity)	<2
	ASTM D570 (Immersion Testing)	25
ELECTRICAL AND THERMAL		
DIELECTRIC STRENGTH, kV/mm	ASTM D 149	1.5
DIELECTRIC CONSTANT, K (DK)	ASTM D 150 at RT	~4.0 at 20 Hz (~2.6 at 1x10 ⁶ Hz)
VOLUME RESISTIVITY (DRY AND 90% RH)	Rogers Method based on ASTM D257	Surface Resistivity ~ 10 ¹¹ Ohm/sq
		Volume Resistivity ~ 10 ¹¹ Ohm-cm
THERMAL CONDUCTIVITY, W/m-K	ASTM 1530 at RT	0.292
COEFFICIENT OF THERMAL EXPANSION, mm/mm C	TMA at 5 C/min heating rate	0.00031
HEAT CAPACITY, J/cm ³ K	ISO/DIS 22007-2.2 (Hot Disk)	0.59

THICKNESS MM (IN)	PORON [®] V-0
5 (0.197)	
6 (0.236)	

Standard Product

- Additional technical information is available.
- All PORON Test Procedures are available for view. Please contact your Rogers Sales Engineer.



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