SRP

Product Data Sheet

Preliminary

poron® ALWAYS THERE

PORON® ReSource30 (15/27) 4701-RS30 Very Soft Supported

Sustainable formulation containing 42% green content: 15% Post-industrial Recycled & 27% Renewable Bio-based.

PROPERTY	TEST METHOD	TYPICAL VALUE		
PHYSICAL				
Density, kg/m^3 (lb./ft^3)	ASTM D3574-95, Test A	192 (12)	240 (15)	320 (20)
Tolerance, %			± 10	
Thickness, mm (inches)		1.0 - 3.2 (0.039 - 0.130)	0.8 - 3.2 (0.033 - 0.125)	0.5 - 1.0 (0.020 - 0.041)
Tolerance, %			± 10	
Standard Color (Code)			Black (04)	
Compression Force Deflection, kPa (psi)	0.51cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection	7 - 35 (1 - 5)	21 - 76 (3 - 11)	35 - 103 (5 - 15)
Compression Set, % max	ASTM D1667-90 Test D @ 23°C (73°F)		2	
	ASTM D3574-95 Test D @ 70°C (158°F)		10	
	ASTM D3574-95 Test J/Test D Autoclaved 5 hrs @ 121°C (250°F)		5	
Dimensional Stability, % max change	24 hrs @ 90°C (194°F) in a Forced-Air Oven		± 1	
ELECTRICAL & THERMAL				
Dielectric Strength, kV/m (volts/mil)	ASTM D149-97a	5512 (140)	9843 (250)	23662 (600)
Volume Resistivity, ohm-cm (ohm-in)	ASTM D257-99	1 x 10^{12} (1.18 x 10^{11})	2 x 10^{12} (7.9 x 10^{11})	6 x 10^{12} (2.4 x 10^{11})
Surface Resistivity, ohm/sq	ASTM D257-99	1 x 10^{12}	1 x 10^{12}	3 x 10^{12}

ROGERS CORPORATION

PROPERTY	TEST METHOD	TYPICAL VALUE		
TEMPERATURE RESISTANCE		192 (12)	240 (15)	320 (20)
Recommended Constant Use, max.	SAE J-2236		Pending	
Recommended Intermittent Use, max.			Pending	
Embrittlement	ASTM D746-98		-40°C (-40°F)	
Cold Flexibility	MIL-P-12420D 1991 @ -40°C (-40°F)		Pass	
FLAMMABILITY AND OUTGASSING				
Fogging	SAE J-1756 3 hrs @ 100°C (212°F)		Pass	
Outgassing, Total Mass Loss (TML) %	ASTM E595-93 24 hrs @ 125°C (257°F) @ <7kPa (1.02 psi)	0.4	0.6	0.6
Outgassing, Water Vapor Regain (WVR) %		0.12	0.19	0.19
ENVIRONMENTAL				
Gasketing & Sealing	UL JMST2 (Consisting of UL50 & UL508) CAN/CSA - C22.2 No. 94-M91		Pending	
Moisture Absorption, High Humidity Exposure, % Weight Gain, Typical	AMS 3568-95		0.1	
Water Absorption, Immersion Testing, % Weight Gain, Typical	ASTM D570-95	17	10	7

Notes:

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

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For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com