

PORON EVExtend®

4701-43

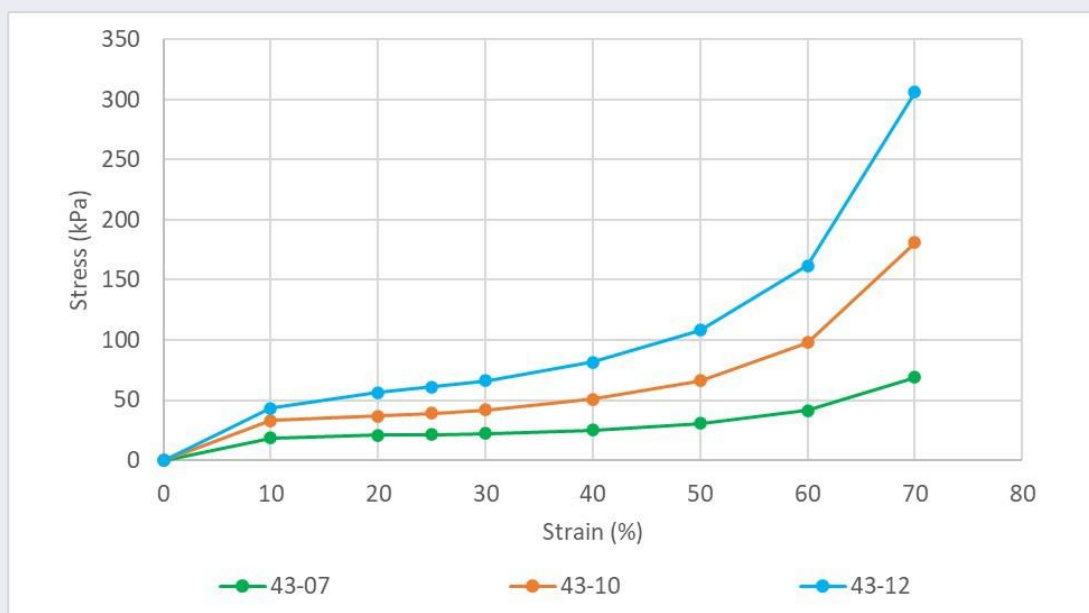
PROPERTY		TEST METHOD		VALUE	
PHYSICAL					
Density, kg/m ³ (lb./ft ³)	ASTM D3574-95, Test A	112 (7)	160 (10)	192 (12)	
Support Type	---	PET	Release PET		
Tolerance, %	---	± 15	± 10		
Thickness, mm (inches)	---	3.0 (0.118)	1.0 - 3.0 (0.039 - 0.118)	1.0 - 3.0 (0.039 - 0.118)	
Tolerance, % ≥2mm	---	± 10	± 5		
Tolerance, % <2mm	---	---	± 7.5		
Standard Color (Code)	---	Black (04)			
Compression Force Deflection, Range kPa (psi) Typical kPa (psi)	0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection Force Measured @ 10% Deflection Force Measured @ 20% Deflection Force Measured @ 25% Deflection Force Measured @ 30% Deflection Force Measured @ 40% Deflection Force Measured @ 50% Deflection Force Measured @ 60% Deflection Force Measured @ 70% Deflection Force Measured @ 80% Deflection	10.3-31.0 (1.5-4.5) 18.6 (2.7) 20.9 (3.0) 21.3 (3.1) 22.1 (3.2) 25.2 (3.6) 30.5 (4.4) 41.4 (6.0) 68.9 (10.0) 169.3 (24.6)	27-55 (4-8) 32.8 (4.8) 36.6 (5.4) 39.1 (5.8) 42.1 (6.3) 50.9 (7.7) 66.1 (10.0) 97.9 (15.0) 181.0 (27.8) 450.0 (69.2)	41-83 (6-12) 43.4 (7.3) 56.5 (8.6) 61.1 (9.3) 66.3 (10.2) 81.5 (12.5) 108.0 (16.6) 162.0 (25.2) 306.0 (47.6) 728.0 (115.0)	
Compression Set, % max.	ASTM D3574-95 Test D @ 23°C (73°F) ASTM D3574-95 Test D @ 70°C (158°F)	5 5			
Tensile Strength, min. kPa, (psi)	ASTM D3574-95 Test E	N/A	345 (50)		
Tensile Elongation, % min.	ASTM D3574-95 Test E	Supported	80		
Tear Strength, kN/m (pli) min	ASTM D264-91 Die C	Product	1.23 (7)		
ELECTRICAL AND THERMAL					
Thermal Conductivity, W/M-C (BTU-in./hr/ft ² -F)	ASTM C518-98	0.044	0.050 (0.35)	0.052 (0.36)	
Dielectric Strength, volts/mil	ASTM D150 Measurement @ 22°C (72°F) Relative Humidity, 50% for 24 Hours	128	56		

PROPERTY	TEST METHOD	VALUE		
TEMPERATURE RESISTANCE				
Recommended Constant Use, max.	SAE J-2236	90°C		
Recommended Intermittent Use, max.	---	121°C		
Embrittlement	ASTM D746-98	-20°C		
FLAMMABILITY AND OUTGASSING				
Outgassing, Total Mass Loss (TML) %	Internal Method: 24 Hours @ 125°C (257°F)	0.72	0.73	0.66
Outgassing, Water Vapor Regain (WVR) %	---	0.59	0.62	0.51
ENVIRONMENTAL				
Water Absorption, Immersion Testing, % Weight Gain, Typical	ASTM D570-95	20		
Water Absorption, High Humidity Exposure, % Weight Gain, Typical	AMS 3568	2		

Notes:

- Thickness availability may vary by construction type.
- All metric conversions are approximate
- Additional technical information is available
- Typical values should not be used for specification limits

Graph 1: Compression Force Deflection Full Range (ASTM D1056)



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