

PORON® Polyuret hanes



Material Selection
Guide For **Industrial**
Applications



Helping **power, protect, connect** our world™

Pocket folder

PORON® Polyurethane foams

ensure reliability where cushioning, sealing, impact protection or energy management are critical to product performance.



Resistance to Stress Relaxation and Compression Set

Durable, long-term performance for gasketing, sealing and cushioning

Energy Absorption

High resiliency, good vibration isolation and impact absorption

Low Outgassing

No plasticizers to migrate, non-corrosive to metal, environmentally safe and clean

Broad Temperature Range

Reliable performance from -40°C to 90°C

Chemical Resistance

Information is available on material exposure to acids, bases, organic fluids, automotive fluids and household fluids

Flame Retardant

Many of the materials meet flammability requirements of UL HBF and MVSS 302

Easy to Fabricate

Die-cuts cleanly and readily accepts adhesive without surface preparation

Product Consistency

Quality manufacturing resulting in reliable, consistent material properties

Broad Product Offering

Wide range of firmness, density, thickness and color options available

Quality Service

All products are supported by knowledgeable Rogers Sales and Applications Engineers, Technical Service and Customer Service Representatives

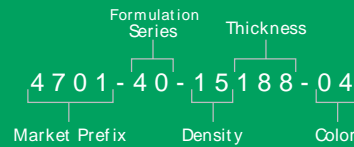
Applications

- Environmental Seals
- Protective Cases
- Water Sealing
- Spacers
- Motor Mounts
- Vibration Isolation
- Springs
- Cup Holder Tabs
- Gaskets
- Appliance Foot Pads
- EMI/RFI Shielding
- Sound Damping
- Gap Filling
- And More

Markets

- Appliance
- Automotive
- Clean Technology
- HVAC
- Medical Device
- Enclosures
- And More

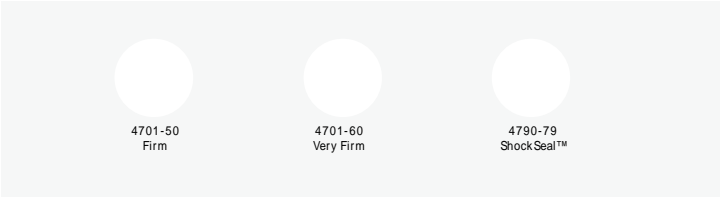
Product Description Chart



FPO BIZ CARD

www.rogerscorp.com

Unsupported PORON® Polyurethanes



Supported PORON® Polyurethanes



4701-30
Dura-Shape™

PORON® materials are available with a tough polyester film securely bonded between two layers of foam. This "sandwich" technology results in a foam product with:

- Increased dimensional stability - no shrinkage or stretching
- Tougher tear strength
- Reliable, long-term shape retention



4790-92
Extra Soft-Slow Rebound



4701-30
Very Soft

PET Film Data (Carrier)		
Property	Test Method	Value
Coefficient of Friction A/B, (Kinetic)	ASTM D 1894	0.40
Density, g/cm ³	ASTM D 1505	1.395
Modules, MD, psi (kg/cm ²)	ASTM D 882	500,000 (35,200)
Shrinkage, MD, % (TD)	39 min. at 150C	1.2 (0.0)
Tensile Strength, MD, psi (kg/cm ²)	ASTM D 882	30,000 (2,110)
Ultimate Elongation	ASTM D 882	150
Yield Strength (FS), psi (kg/cm ²)	ASTM D 882	15,000 (1,050)



Standard Product Availability

Thickness		Product																			
IN	MM	4790-92				4790-79				4701-30		4701-40		4701-41		4701-50		4701-60			
		9 pcf	12 pcf	15 pcf	20 pcf	25 pcf	30 pcf	9 pcf	12 pcf	15 pcf	20 pcf	15 pcf	20 pcf	15 pcf	20 pcf	15 pcf	20 pcf	15 pcf	20 pcf	25 pcf	30 pcf
0.012	0.30						L														
0.017	0.43						S	S													
0.020	0.51	L	L		S																
0.021	0.53						L	L	L												
0.024	0.61																				
0.030	0.75	L	L		S		L	L													
0.031	0.79																				
0.035	0.89																				
0.037	0.94																				
0.039	1.00	L	L		S		L	L													
0.041	1.04																				
0.045	1.14																				
0.047	1.19																				
0.049	1.25																				
0.059	1.50	L	S																		
0.062	1.57																				
0.064	1.63																				
0.081	2.06																				
0.093	2.36																				
0.095	2.41																				
0.120	3.05	L	S																		
0.125	3.18																				
0.155	3.94																				
0.188	4.78																				
0.250	6.35																				
0.375	9.53																				
0.425	10.80																				
0.500	12.70																				

Table Legend: L Standard Product, S Non-Standard Product, Product Not Available, Supported Product w/ 2mil PET

Thickness		Dura-Shape Product											
IN	MM	4790-92, Py2mid		4701-30, Py2mid		4701-40, Py2mid		4701-41, Py2mid		4701-50, Py2mid			
		15 Pcf	20 Pcf	15 Pcf	20 Pcf	15 Pcf	20 Pcf	15 Pcf	20 Pcf	15 Pcf	20 Pcf	15 Pcf	20 Pcf
0.062	1.57												
0.064	1.63												
0.081	2.06												
0.093	2.36	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.095	2.41	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.120	3.05	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.125	3.18	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.155	3.94	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.188	4.78	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.250	6.35	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.375	9.53	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.425	10.8	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
0.500	12.7	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

Table Legend: ♦ Non-standard Supported Product W/ 2mil PET In The Middle, Product Not Available, ♦ Standard Supported Product W/ 2mil PET In The Middle

Product	Typical Physical Properties										Electrical & Thermal					Temperature Resistance			Flammability & Outgassing					Environmental										
	Density ¹ lb/(ft ³ /m ³) Tolerance % ASTM D 3574 Test A	Thickness: inches (mm), Tolerance %	Standard Color (Code)	Compression Force Deflection: Bunge psi (kPa), Typical psi (kPa) @ 25% Deflection @ 25% Deflection	Modulus (E) Consider Shore (D) Shore A ² ASTM D 240	Compression Set, % min. Typical (1) ASTM D 574 Test D @ 185°F/70°C	Compression Set, % min. Typical (1) ASTM D 574 Test J Best Data for all loaded 5 hrs. @ 250°F (120°C)	Compression Set, % min. change 22 hrs. @ 176°F (80°C) in a forced air oven	Tensile Strength: Min. psi (kPa), Typical psi (kPa) ASTM D 574 Test E	Tensile Elongation: % Min., Typical (1) ASTM D 574	Tear Strength: Min. psi (kN/m), Typical psi (kN/m) ASTM D 624, D16-C	Delamination Coefficient: K ¹ (K ²) ASTM D 150 measurement @ 72°F (22°C) relative humidity 45% for 24 hours	Dielectric Strength: Typical (Volts/mil), ASTM D 148	Dissipation Factor: Tan D (PPF) ³ ASTM D 150	Volume Resistivity: ohm-cm, ASTM D 257	Surface Resistivity: ohm-sq., ASTM D 257	Thermal Conductivity: W/mK (Btu-in/hr-ft ² -°F) ASTM D 518	Coeff. of Thermal Expansion: from -30°C to 100°C (in/in/°C) ASTM E831	Temperature Resistance: Room (moist) intermittent Use: max. ASTM D 746	Temperature Resistance: Embrittlement, ASTM D 746	Temperature Resistance: Cold Flexibility, MIL-PRF-14220 D @ -40°F (-40°C)	Flame Retardance: Thickness (Pass) UL-94 (UL 14 and UL 746A) (UL 746A/CSA, UL 94V-0 (Pass), UL 94V-1 (Pass), UL 94V-2 (Pass))	Outgassing: Total Mass Loss (TML) % ASTM E 595-24 hrs. @ 250°F (125°C) @ 2x10 ⁻⁵ Pa	Outgassing: Collected Volatile Condensable Material (CVCM) % ASTM E595-24 hrs. @ 250°F (125°C) @ 2×10^{-5} Pa	Outgassing: Collected Volatile Condensable Material (CVCM) % ASTM E595-24 hrs. @ 250°F (125°C) @ 2×10^{-5} Pa	Outgassing: Volatile Organics (VOC) % ASTM E595-24 hrs. @ 250°F (125°C) @ 2×10^{-5} Pa	Water Vapor Regain (WVR) % ASTM E595-24 hrs. @ 250°F (125°C) @ 2×10^{-5} Pa	Gas Permeability: UL-1812 (Consisting of UL58 and UL581) (CON/GSM) CS-2 No. 64-A1F1	Water Absorption: High Humidity Exposure: Typical % weight gain, MIL-STD-883C	Water Absorption: Immersion Testing: Typical % weight gain, ASTM D 570	UV Resistance: ASTM G 53. Results reported on a scale of 1-10 (1 = best)	Corrosion Resistance: GM 4488P	Corrosion Resistance: Typical Visual Evaluation Number, GM 4488P	
4790-92 and Dura-Shape Option	12 (192), ±10	0.155-0.425 (3.94 - 10.8), ±10	Black (04)	0.25-2.5 (1.7-17), 1.4 (10)	<3, NA	10, 2.0	5, 0.4	±3	12 (83), 21.76 (150)	150, 215	2 (0.4), 4.28 (0.75)	NA	80.77	9.33 x 10 ¹¹	3.76 x 10 ¹³	0.063 (0.44)	2.38-2.88 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-4°F (-20°C)	NA	NA	0.155* (3.94mm), 0.155* (3.94mm), 0.155* (3.94mm)	Pass	0.76	0.04	0.1	0.6	NA	2	38	7	Pass	5
	15 (240), ±10	0.125-0.500 (3.18 - 12.70), ±10	Black (04)	0.3-3.5 (2-24), 2 (14)	<5, NA	10, 1.6	5, 0.5	±5	15 (103), 24.37 (168)	120, 220	4 (0.7), 5 (0.9)	1.48	NA	0.04	8 x 10 ¹¹	10 x 10 ¹¹	0.07 (0.49)	2.8-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	NA	NA	0.118* (3.00mm), 0.118* (3.00mm), 0.188* (3.00mm)	Pass	1.73	0.14	0.2	0.71	Pass	2	34	10	Pass	4
4701-30 and Dura-Shape Option	15 (240), ±10	0.188-0.500 (4.78 - 12.70), ±10	Black (04)	1.5 (7-35), 3 (21)	<3, <3	10, 0.9	5, 0.5	±1	20 (137), 34.5 (238)	100, 161	1 (0.2), 5 (0.9)	1.75	NA	0.05	3 x 10 ¹¹	6 x 10 ¹¹	0.067 (0.46)	2.3-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-60°F (-51°C)	Pass	0.188* (3.00mm), 0.188* (3.00mm), 0.188* (3.00mm)	Pass	0.8	0.1	0.1	0.2	Pass	2	12	10	Pass	5
	20 (320), ±10	0.062-0.125 (1.57 - 3.18), ±10	Black (04)	3-8 (21-55), 5 (35)	8, 5	10, 1.7	5, 0.5	±1	30 (205), 47.6 (326)	100, 154	2 (0.4), 7 (1.2)	1.75	103.38	0.05	3.19 x 10 ¹¹	1.27 x 10 ¹³	0.079 (0.55)	1.89-2.91 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-60°F (-51°C)	Pass	0.093* (2.36mm), 0.062* (1.57mm), 0.062* (1.57mm)	Pass	1	0.1	0.1	0.3	Pass	2	9	10	Pass	5
4701-40 and Dura-Shape Option	15 (240), ±10	0.188-0.500 (4.78 - 12.70), ±10	Black (04)	4-8 (27-55), 5 (41)	12, 8	10, 0.9	5, 0.5	±2.5	40 (275), 83.7 (577)	100, 168	3 (0.5), 9 (1.6)	1.71	NA	0.05	1 x 10 ¹²	2 x 10 ¹²	0.067 (0.46)	2.3-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.188* (3.00mm), 0.188* (3.00mm), 0.188* (3.00mm)	Pass	0.7	0.04	0.04	0.3	Pass	2	10	10	Pass	5
	20 (320), ±10	0.062-0.125 (1.57 - 3.18), ±10	Black (04)	7-13 (48-90), 11 (76)	17, 12	10, 1.3	5, 0.6	±2.5	75 (518), 83.7 (577)	100, 160	5 (0.9), 12 (2.1)	1.71	101.60	0.05	1.96 x 10 ¹²	7.05 x 10 ¹³	0.08 (0.55)	1.80-2.60 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.062* (1.57mm), 0.062* (1.57mm), 0.062* (1.57mm)	Pass	0.8	0.04	0.04	0.3	Pass	2	9	10	Pass	6
4701-41 and Dura-Shape Option	30 (480), ±10	0.031-0.045 (0.79 - 1.14), ±20	Black (04)	15-40 (104-276), 25 (173)	34, 25	1, 1.5	5, 0.6	±2.5	120 (829), 157.8 (1088)	100, 140	12 (2.1), 17 (3.0)	1.71	NA	0.05	1 x 10 ¹²	2 x 10 ¹²	0.127 (0.88)	2.3-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.045* (1.14mm), NA, NA	Pass	1.0	0.05	0.1	0.62	Pass	NA	NA	NA	6	6
	15 (240), ±10	0.188-0.500 (4.78 - 12.70), ±10	Black (04)	5-11 (35-76), 9.3 (64)	18, NA	10, 4.7	5, 0.7	±2	40 (276), 67.6 (466)	100, 164	6 (1.1), 10 (1.8)	1.71	NA	0.05	1 x 10 ¹²	2 x 10 ¹²	0.063 (0.44)	2.3-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	NA	Pass	0.197* (5.00mm), NA, 0.188* (3.00mm)	Pass	0.84	0.05	0.1	0.4	Pass	3	15	10	Pass	6
4701-41 and Dura-Shape Option	20 (320), ±10	0.062-0.125 (1.57 - 3.18), ±10	Black (04)	10-17 (69-117), 15 (103)	24, NA	10, 3.6	5, 0.7	±2	75 (517), 91.1 (628)	100, 143	8 (1.4), 13 (2.3)	1.71	132.08	0.05	1.16 x 10 ¹²	5.17 x 10 ¹³	0.08 (0.55)	1.93-3.03 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	NA	Pass	0.125* (3.18mm), 0.062* (1.57mm), NA	Pass	0.97	0.04	0.1	0.46	Pass	3	13	7	Pass	6
	30 (480), ±10	0.031-0.045 (0.79 - 1.14), ±20	Black (04)	15-40 (103-276), 28 (193)	55, NA	10, 5.0	5, 0.8	±2	120 (827), 132.0 (910)	100, 138	15 (2.6), 18 (3.2)	1.71	NA	0.05	1 x 10 ¹²	2 x 10 ¹²	0.12 (0.83)	2.3-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	NA	Pass	0.045* (1.14mm), NA, NA	Pass	1.0	0.06	0.1	0.65	Pass	3	6	7	Pass	6
4701-50 and Dura-Shape Option	15 (240), ±10	0.188-0.500 (4.78 - 12.70), ±10	Black (04)	8-14 (55-97), 10 (68)	18, 13	10, 0.5	5, 0.9	±2.5	80 (553), 107.9 (744)	100, 157	6 (1.1), 12 (2.1)	1.63	-	0.05	2 x 10 ¹²	7 x 10 ¹²	0.07 (0.49)	2.3-3.1 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.188* (3.00mm), 0.188* (3.00mm), 0.188* (3.00mm)	Pass	0.6	0.04	0.1	0.1	Pass	2	13	7	Pass	6
	20 (320), ±10	0.062-0.125 (1.57 - 3.18), ±10	Black (04)	13-23 (89-161), 17 (117)	24, 18	10, 1.5	5, 1.2	±2.5	120 (827), 153.9 (1061)	100, 125	10 (1.8), 16 (2.6)	1.63	66.04	0.05	4.26 x 10 ¹²	3.76 x 10 ¹⁴	0.08 (0.55)	1.84-2.09 x 10 ⁻⁴	194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.062* (1.57mm), 0.062* (1.57mm), 0.062* (1.57mm)	Pass	0.8	0.05	0.02	0.3	Pass	2	11	7	Pass	6

¹ Typical values are a representation of an average value for the population of the property. For specification values contact Rogers Corporation.

² See UL File MH15464 ³ See UL File MH15464 & File 188149
⁴ Tensile strength and elongation determined by the PET for Dura-Shape materials. ⁵ NA for Dura-Shape version.

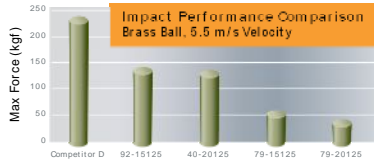
Product	Typical Physical Properties											Electrical & Thermal						Temperature Resistance				Flammability & Outgassing							Environmental					
	Density, lb./ft. ³ (kg./m. ³), Tolerance % ASTM D3574 Test A	Thickness, inches (mm), Tolerance %	Standard Color (Code)	Compression Force Deflection, Range psi (kPa), Typical psi (kPa), 0.2 min. Strain Rate of Force @ 25% Deflection	Modulus of Elasticity, Shore "C", Shore "A", ASTM D2240	Compression Set, % max. Typical, ASTM D3574 Test D @ 150°F (70°C)	Compression Set, % min. Typical, ASTM D3574 Test J / Test D after autoclave 5 hrs. @ 250°F (120°C)	Dimensional Stability, % max. change 22 hrs. @ 176°F (80°C) in a forced air oven	Tensile Strength, Min. psi (kPa), Typical psi (kPa), ASTM D3574	Tensile Elongation, % Min., Typical %, ASTM D3574	Tear Strength, Min. pli (kNm), Typical pli (kNm), ASTM D624 De C	Dielectric Constant, (1/32") ASTM D 150 measurements @ 72°F (22°C) relative humidity 50% for 24 hours.	Dielectric Strength, Typical (Volts/mi.), ASTM D 149	Dissipation Factor, Tan Delta (DPF), ASTM D 150	Volume Resistivity ohm-cm, ASTM D 257	Surface Resistivity ohm-cm, ASTM D 257	Thermal Conductivity, W/m.K (BTU-in/h-ft-F), ASTM C 816	Coef. of Thermal Expansion from -30°C to 100°C (in./in./°F), ASTM E 831	Temperature Resistance: Recommended Constant Use - max., SAE J 2338	Temperature Resistance: Recommended Intermittent Use - max., ASTM D 746	Temperature Resistance: Embrittlement, ASTM D 746	Temperature Resistance: Qualifiability, MIL-P-12420 D @ -40°F (-40°C)	Flame Retardance Thickness (Pass), 1/16" Thick, UL 94V-0, UL 746C, UL 94V-0, 2.0, 0.17 (0.01), FMVSS 302 (Pass), GM3232 (Pass)	Fogging, SAE J-1756 3 hrs @ 212°F (100°C)	Outgassing, Total Ionizable (TML), % ASTM E 698-24 hrs. @ 257°F (125°C) @ 74.10" Pa	Outgassing, Collected Volatile Condensable Materials (CDM), % ASTM E 698-24 hrs. @ 257°F (125°C) @ 74.10" Pa	Outgassing, Collected Volatile Condensable Materials (CM), % ASTM E 698-24 hrs. @ 257°F (125°C) @ 74.10" Pa	Outgassing, Water Vapor Regain (WVR), % ASTM E 895-24 hrs. @ 257°F (125°C) @ 25x10 ⁻³ Pa	Gas Adsorption and Swelling, UL 1875 (Consisting of UL50 and UL58) (CAN/CSA-C22.2 No. 94-M91)	Water Absorption: High Humidity	Water Absorption: Immersion Testing - Typical, % weight gain, ASTM D 570	UV Resistance: ASTM G 53, Results reported on a scale of 1-10 (1 = best)	Odor Resistance: GM 4482P	Corrosion Resistance: Pass, visual inspection method, SAE 10383
Unsupported (No PET)	4701-60	15 (240), ±10 0.125 - 0.250 (3.18 - 6.35), ±10	Black (04)	18-50 (124-345), 36 (249)	42, 30	10, 5.1	10, 9.0	±5	149 (1030), 189.1 (1304)	50, 86	12 (2.0), 19 (3.3)	1.60	NA	0.05	7 x 10 ¹²	3 x 10 ¹³	0.06 (0.42)	2.3-3.1 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	3°F (-16°C)	Pass	0.125" (3.18mm), 0.125" (3.18mm), 0.125" (3.18mm)	Pass	0.6	0.05	0.03	0.5	2	19	7	Pass	5	
	4701-60	20 (320), ±10 0.031 - 0.188 (0.79 - 4.78), ±10	Black (04)	25-85 (172-586), 62 (428)	55, 42	10, 6.5	10, 9.3	±5	200 (1380), 275.0 (1896)	50, 91	14 (2.5), 25 (4.4)	1.60	58.42	0.05	1.83 x 10 ¹³	2.35 x 10 ¹⁴	0.07 (0.49)	2.31-2.92 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	3°F (-16°C)	Pass	0.062" (1.57mm), 0.062" (1.57mm), 0.062" (1.57mm)	Pass	0.7	0.02	0.03	0.5	2	20	5	Pass	6	
	4701-60	25 (400), ±10 0.031 - 0.093 (0.79 - 2.36), ±15	Black (04)	50-130 (345-896), 93 (643)	63, 53	10, 7.4	10, 9.3	±5	250 (1725), 362.2 (2497)	50, 86	30 (5.0), 33 (3.3)	1.60	NA	0.05	7 x 10 ¹²	3 x 10 ¹³	0.09 (0.62)	2.3-3.1 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	3°F (-16°C)	Pass	0.062" (1.57mm), 0.062" (1.57mm)	Pass	0.7	0.03	0.02	0.6	2	6	5	Pass	6	
Unsupported (No PET)	4780-79	12 (192), ±10 0.250-0.375 (6.35-9.53), ±10	Black (04)	1-5 (7-35), NA (NA)	NA, NA	10, NA	NA, 1.0	NA	30 (207), 63.2 (436)	145, 225	5 (0.9), 12 (2-1)	NA	NA	NA	NA	NA	0.057 (0.40)	NA	NA	NA	-40.9°F (-40.5°C)	NA	In Testing	NA	0.53-0.67	0.03-0.05	0.2	0.30-0.35	NA	10	NA	NA	NA	5
	4780-79	15 (240), ±10 0.125-0.500 (3.18-12.70), ±10	Black (04)	2-10 (14-69), NA (NA)	NA, NA	10, 1.9	NA, 2.2	NA	60 (414), 104.9 (723)	145, 200	6 (1.1), 18 (3.3)	NA	NA	NA	NA	NA	0.071 (0.49)	NA	NA	NA	-58°F (-50°C)	NA	0.125" (3.18mm), 0.080" (2.03), 0.125" (3.18mm)	NA	0.58-0.74	0.03-0.04	0.1	0.32-0.42	NA	10	NA	NA	NA	6
	4780-79	20 (320), ±10 0.062-0.188 (1.57-4.78), ±10	Black (04)	4-16 (28-110), NA (NA)	NA, NA	10, 2.1	NA, 1.8	NA	100 (689), 146.5 (1010)	145, 180	10 (1.8), 22 (3.9)	NA	NA	NA	NA	NA	0.093 (0.58)	NA	NA	NA	6.8°F (-14°C)	NA	0.062" (1.57mm), 0.062" (1.57mm), 0.062" (1.57mm)	NA	0.67-0.77	0.03-0.04	0.05	0.35-0.47	NA	10	NA	NA	NA	6
PET Supported	4780-82	15 (240), ±2 (32) 0.039 - 0.120 (1.00-3.05), ±10	Black (04)	0.3-3.5 (2-24), 1.7 (12)	2, NA	10, 1.7	NA, 1.6	NA	NA	NA	NA	1.48	NA	0.04	8 x 10 ¹¹	8 x 10 ¹¹	0.075 (0.52)	2.3-3.1 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	-4°F (-20°C)	Pass	0.120" (3.05mm), NA, 0.120" (3.05mm)	Pass	1.73	0.14	0.1	0.71	2	25	1	Pass	6	
	4780-82	20 (320), ±10 0.081 (2.06), ±10	Black (04)	1-5 (7-35), 3.2 (22)	NA, NA	10, 1.6	NA, 1.2	NA	NA	NA	NA	1.48	NA	0.04	10 x 10 ¹¹	10 x 10 ¹¹	0.095 (0.66)	2.3-3.1 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	0°F (-18°C)	Pass	0.081" (2.06mm), NA, 0.081" (2.06mm)	Pass	1.63	0.29	0.1	0.49	2	23	1	Pass	6	
	4701-30	20 (320), ±10 0.064 - 0.095 (1.63 - 2.36), ±10	Black (04)	3-8 (21-55), 5.0 (34)	8, NA	10, 1.7	NA, 0.5	NA	NA	NA	NA	1.75	NA	0.05	3.1 x 10 ¹¹	5.9 x 10 ¹¹	0.086 (0.60)	2.3-3.1 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	-60°F (-51°C)	Pass	NA, NA, 0.095" (2.41mm)	Pass	1.0	0.1	0.04	0.3	2	9	2	Pass	6	

† Typical values are a representation of an average value for the population of the property. For specification values contact Rogers Corporation.

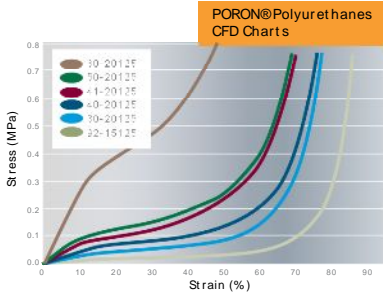
¹ See UL File MH15464 ² See UL File MH15464 & File 188149



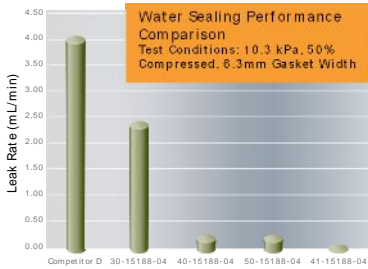
Performance Data



**The Rogers High Performance Foams
Impact Prediction Tool**
This tool was developed to help you choose the best PORON® Polyurethane or BISCO® Silicone materials for energy absorbing applications.



The PORON Polyurethanes Gap Filling Tool
This tool will assist you in identifying the proper PORON® foams for all of your gap filling applications.



The Rogers High Performance Foams Online Material Selection Guide Tool

This tool will assist you in identifying the proper PORON® Polyurethane and BISCO® Silicone materials that best meet your numerous design requirements. The purpose of the tool is to provide several material options based upon your application requirements.

Click the Design Tools tab on the Elastomeric Material Solutions page at rogerscorp.com/ems

For additional information not found in the Rogers Online Tools, please contact your local Sales Engineer!

Typical Industrial Application: Hybrid Electric Vehicle



World Class Performance

Rogers Corporation (NYSE:ROG) is a global leader in engineered materials to power, protect, and connect our world. With more than 180 years of materials science experience, Rogers delivers high-performance solutions that enable clean energy, internet connectivity, and safety and protection applications, as well as other technologies where reliability is critical. Rogers delivers Power Electronics Solutions for energy-efficient motor drives, vehicle electrification and alternative energy; Elastomeric Material Solutions for sealing, vibration management and impact protection in mobile devices, transportation interiors, industrial equipment and performance apparel; and Advanced Connectivity Solutions for wireless infrastructure, automotive safety and radar systems. Headquartered in Connecticut (USA), Rogers operates manufacturing facilities in the United States, China, Germany, Belgium, Hungary, and South Korea, with joint ventures and sales offices worldwide.

For more information on PORON® Urethanes visit www.rogerscorp.com

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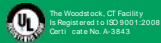
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