

PORON® Polyurethanes



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

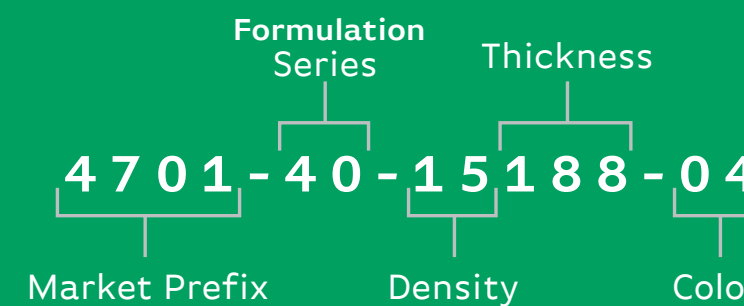
HVAC

Medical Device

Enclosures

And More

Product Description Chart



www.rogerscorp.com

FPO BIZ CARD

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 (F5), 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	25 pcf	15 pcf	20 pcf	30 pcf	15 pcf	20 pcf	25 pcf	30 pcf	15 pcf	20 pcf	25 pcf	30 pcf			
0.012	0.30																											
0.017	0.43																											
0.020	0.51	●	●			▲	▲	▲	▲							▲									●			
0.021	0.53	▲	▲			●	●	●	●							▲									▲			
0.024	0.61	▲	▲			●	●	●	●							▲									▲			
0.030	0.75	●	●			▲	▲	▲	▲							▲									▲			
0.031	0.79	▲	▲			●	●	●	●							●								▲	●	●	●	
0.035	0.89	▲	▲			▲	▲	▲	▲							●								▲	▲	▲	▲	
0.037	0.94	▲	▲			▲	▲	▲	▲							●								▲	▲	▲	▲	
0.039	1.00	●	●	●		▲	▲	▲	▲							▲								▲	▲	▲	▲	
0.041	1.04	▲	▲	▲	▲	●				▲						▲								▲	▲	▲	▲	
0.045	1.14		▲	▲	▲	▲				▲						●								▲	●	▲	▲	
0.047	1.19		▲	▲	▲	▲				▲						●								▲	▲	▲	▲	
0.049	1.25		●	▲	▲	▲				▲						▲								▲	▲	▲	▲	
0.059	1.50		●	▲	▲											▲	▲						▲	▲	▲	▲	▲	
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	10.80		▲	▲								▲	▲		▲		▲	▲					▲	▲	▲	▲	▲	
0.500	12.70		▲	●								▲	●		▲		●	▲					●	▲		●	▲	

Table Legend: ● Standard Product ▲ Non-Standard Product — Supported Product w/ 2mil PET ■ Product Not Available

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		
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

PORON® Polyurethanes

Unsupported (No PET)

Product	Typical Physical Properties											Electrical & Thermal					Temperature Resistance				Flammability & Outgassing					Environmental								
	Density: lb./ft. ³ , (kg / m ³), Tolerance % ASTM D 3574 Test A	Thickness: inches (mm), Tolerance %	Standard Color (Code)	Compression Force Deflection: Range psi (kPa), Typical [†] psi (kPa) * 0.2"/min. Strain Rate Force @ 25% Deflection	Hardness / Durometer: Shore "0", Shore "A" ASTM D 2240	Compression Set: % max, Typical [†] % ASTM D 3574 Test D @ 158°F (70°C)	Compression Set: % max, Typical [†] % ASTM D 3574 Test J / Test D after autoclaved 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 D 3574 Test E	Tensile Elongation: % Min., Typical [†] %, ASTM D 3574	Tear Strength: Min. pli (kN/m), Typical [†] pli (kN/m), ASTM D 624 Die C	Dielectric Constant: K ("DK"), ASTM D, 150 measurements @ 72°F (22°C) relative humidity 50% for 24 hours.	Dielectric Strength: Typical [†] Volts/mil, ASTM D 149	Dissipation Factor: Tan D ("DF"), 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 C 518	Coefficient of Thermal Expansion from -30°C to 100°C (in./in./°C) ASTM E851	Temperature Resistance: Recommended Constant Use - max, SAE J-2236	Temperature Resistance: Recommended Intermittent Use - max, ASTM D 746	Temperature Resistance: Embrittlement, ASTM D 746	Temperature Resistance: Cold Flexibility, MIL-P-12420 @ -40°F (-40°C)	Flame Resistance Thickness (Pass ²): UL HBF (UL 94 and UL 746A) or UL 746CCSA, following C22.2 No. 0.17.00, FMVSS 302 (Pass, ≥), GM3232 (Pass ²)	Fogging: SAE J-1756 3 hrs @ 21.2°F (10.0°C)	Outgassing: Total Mass Loss (TML) %, ASTM E 595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	Outgassing: Collected Volatile Condensable Materials (CVCN) %, ASTM E 595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	Outgassing: Collected Volatile Condensable Materials (CVCN) mg, GMW3235 Code B Condensible Constituent	Outgassing: Water Vapor Regain (WVR) %, ASTM E 595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	Gasketing and Sealing: UL JMST2 (Consisting of UL50 and UL508), CAN/CSA-C22.2 No. 94-M91	Water Absorption: High Humidity Exposure - Typical [†] % weight gain, AMS 3568	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)	Ozone Resistance: GM 4486P	Corrosion Resistance: Median visual evaluation number, SAE J1389
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	NA	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	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 ¹ **	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 **	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 (328) *	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 **	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), 66.0 (455) *	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 **	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 **	2	9	10	Pass	6
	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	NA, NA, 0.045" (1.14mm) **	NA	1.0	0.05	0.1	0.62	NA	NA	NA	6	Pass	6
4701-41 and Dura-Shape Option	15 (240), ±10	0.188 - 0.500 (4.78 - 12.7), ±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) **	NA	0.84	0.05	0.1	0.4	Pass ² **	3	15	10	Pass	6
	20 (320), ±10	0.062 - 0.125 (1.57 - 3.18), ±10	Black (04)	10-17 (69-117), 15 (103)	24, NA	10, 3.8	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	NA, .125" (3.18mm), 0.062" (1.57mm) **	NA	0.97	0.04	0.1	0.46	Pass ² **	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, ***	NA	1.0	0.06	0.1	0.65	Pass ² **	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 (69)	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 ***	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 (1064) **	100, 125 **	10 (1.8), 16 (2.8)	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 ***	2	11	7	Pass	6

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

* Tensile strength and elongation determined by the PET for Dura-Shape materials. ** See UL File MH15464 & File 188149. *** See UL File MH15464.

PORON® Polyurethanes

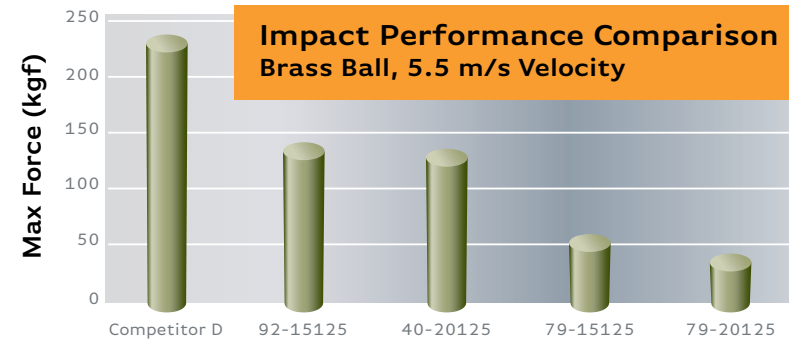
Product	Typical Physical Properties											Electrical & Thermal						Temperature Resistance				Flammability & Outgassing					Environmental								
	Density: lb./ft ³ (kg / m ³), Tolerance % ASTM D 3574 Test A	Thickness: inches (mm), Tolerance %	Standard Color (Code)	Compression Force Deflection: Range psi (kPa), Typical psi (kPa) * 0.2"/min. Strain Rate Force @ 25% Deflection	Hardness / Durometer: Shore "O", Shore "A" ASTM D 2240	Compression Set: % max, Typical % ASTM D 3574 Test D @158°F (70°C)	Compression Set: % max, Typical % ASTM D 3574 Test J / Test D after autoclaved 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 D 3574 Test E	Tensile Elongation: % Min., Typical % ASTM D 3574	Tear Strength: Min. pli (kN/m), Typical pli (kN/m), ASTM D 624 Die C	Dielectric Constant: K' ("BK") ASTM D, 150 measurements @ 72°F (22°C) relative humidity 50% for 24 hours.	Dielectric Strength: Typical Volts/mil, ASTM D 149	Dissipation Factor: Tan D ("DF"), 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 C 518	Coefficient of Thermal Expansion from -30°C to 100°C (in./in./°C) ASTM E831	Temperature Resistance: Recommended Constant Use - max, SAE J-2236	Temperature Resistance: Recommended Intermittent Use - max, ASTM D 746	Temperature Resistance: Embrittlement, ASTM D 746	Temperature Resistance: Cold Flexibility, MIL-P-12420 D @ -40°F (-40°C)	Flame Resistance Thickness (Pass≥): UL HBF (UL 94 and UL 746A(or)UL746CCSA, following C22.2 No. 0.17.00), FMVSS 302 (Pass, ≥), GM3232 (Pass≥)	Fogging: SAE J-1756 3 hrs @ 21.2°F (100°C)	Outgassing: Total Mass Loss (TML) %, ASTM E 595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	Outgassing: Collected Volatile Condensable Materials (CVCN) %, ASTM E 595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	Outgassing: Collected Volatile Condensable Materials (CVCN) mg, GMW3235 Code B Condensible Constituent	Outgassing: Water Vapor Regain (WVR) %, ASTM E 595 24 hrs. @ 257°F (125°C) @ <7x10 ⁻³ Pa	Gasketing and Sealing: UL JMST2 (Consisting of UL50 and UL508), CAN/CSA-C22.2 No. 94-M91	Water Absorption: High Humidity Exposure - Typical % weight gain, AMS 3568	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)	Ozone Resistance: GM 4486P	Corrosion Resistance: Median visual evaluation number, SAE J1389	
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 ¹²	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	Pass ²	2	19	7	Pass	5
		20 (320), ±10	0.031 - 0.188 (0.79 - 4.78), ±10		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)	Pass	0.7	0.02	0.03	0.5	Pass ²	2	20	5	Pass	6
		25 (400), ±10	0.031 - 0.093 (0.79 - 2.36), ±15		50-130 (345-896), 93 (643)	63, 53	10, 7.4	10, 9.3	±5	250 (1725), 362.2 (2497)	50, 86	20 (3.5), 30 (5.3)	1.60	NA	0.05	7 x 10 ¹²	3 x 10 ¹²	0.09 (0.62)	2.3-3.1 x 10 ⁻⁴	158°F (70°C)	250°F (121°C)	3°F (-16°C)	Pass	NA, 0.062" (1.57mm), 0.062" (1.57mm)	Pass	0.7	0.03	0.02	0.6	Pass ²	2	6	5	Pass	6
Unsupported (No PET)	4790-79	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 (.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	Pass ¹	NA	10	NA	NA	5
		15 (240), ±10	0.125-0.500 (3.18-12.70), ±10		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	Pass ¹	NA	10	NA	NA	6
		20 (320), ±10	0.062-0.188 (1.57-4.78), ±10		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	0.083 (0.58)	NA	NA	NA	6.8°F (-14°C)	NA	0.062" (1.57mm), 0.062" (1.57mm)	NA	0.67-0.77	0.03-0.04	0.05	0.35-0.47	Pass ¹	NA	10	NA	NA	6
PET Supported	4790-92	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	NA	2	25	1	Pass	6
		20 (320), ±10	0.081 (2.06), ±10		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	NA	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	Pass ²	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.

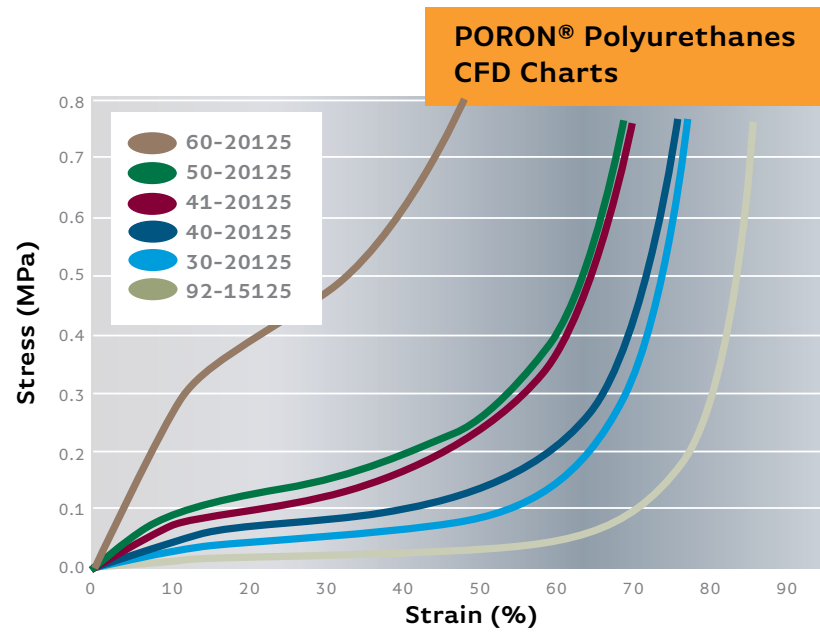
¹ See UL File MH15464 ² See UL File MH15464 & File 188149



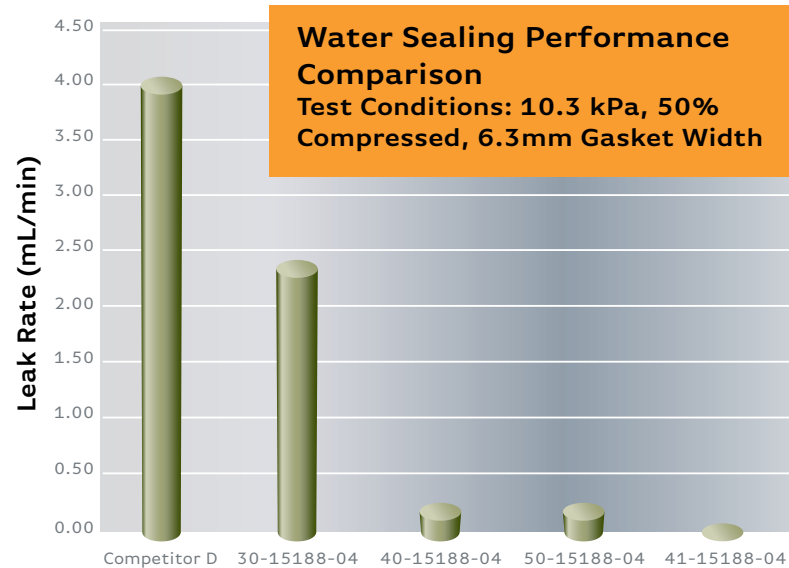
Performance Data



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.

Typical Industrial Application: Hybrid Electric Vehicle



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!

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