

PORON * Performance Urethanes – Typical Physical Properties

PROPERTY	TEST METHOD	PRODUCT				
Formulation		PORON Plus Cushioning (S-Soft)		PORON Performance Shock Absorbing (F-Firm)		
Density, lb. / ft	ASTM D3574-95 Test A	15	20	15	17	20
Specific Gravity		0.24	0.32	0.24	0.27	0.32
Tolerance, %			'	± 10	,	
Standard Thickness		See Product Availability				
Tolerance, %		± 10				
Standard Color		00 – Butterscotch 13 – Royal Blue				
Air Permeability	Gurley Densometer	Open Cell - Breathable				
Compression Set % max.	ASTM D3574 Test D @ 158°F (70°C)	10				
Compression Force Deflectionsi (kPa)	, 0.2"/min. Strain Rate Force Measured @ 25% Deflection	4 – 8 (27–55)	6 – 14 (41– 97)	6 – 16 (41-111)	8 – 20 (55 - 138)	10 – 25 (69 - 172)
Hardness, Durometer	Shore "O"	12	17	18	20	24
Hydrolysis Resistance,	ASTM D3574 Test J / Test D after	Good Resistance 5				
Compression Set, % Max	autoclaved 5 hrs @ 25B (121°C)					
Resilience, Shore Instrument Resiliometer, avg (Ball Rebound Tester)	ASTM D 2632-96, Vertical Rebound	24	25	14	15	16
Water Vapor Transfer, Typical	Based on ASTM E96-00	>19 (200)				
g/ft/24hrs (g/m/24hrs)						
Water Absorption% Wt Gain	Based on ASTM D570	< 20				
Antimicrobial Fungal Resistance	ASTMG21	Does not promote fungal growth				
Skin Contact	Primary Skin Irritation – FHSA	Pass				
Tear Strength, pli, min. (kN/m)	ASTM D624 Die C	3 (0.5)	5 (0.9)	6 (1.1)	10 (1.8)	11 (1.9)
Tensile Elongation % min.	ASTM D3574 Test E	100	100	100	100	100
Tensile Strength psi, min. (kPa)	ASTM D3574 Test E	40 (276)	75 (517)	70 (483)	90 (621)	120 (827)
Temperature Resistancemax Recommended Constant Use Recommended Intermittent Us	ASTM D746-98	90°C (194°F) 121°C (250°F)				
Staining	ASTM D925-88	No S tain				
Chemical Resistance		PORON Urethanes are unaffected by mild organic acids ar bases. They show modest swelling with oils and greases a other linear hydrocarbons. Strongly polar solvents will growwell PORON Urethanes. In most cases, physical properties recover to a great extent as the solvents evaporate.				
		No tackiness or surface deterioration				

The above data represent typical values. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The user should determine the suitability of Rogers PORON Performance Urethanes for each application.

Notes:

- 1. All metric conversions are approximate.
- 2. Additional technical services are available.