ROGERS CORPORATION

PORON® Polyurethanes

Elastomeric Material Solutions
www.rogerscorp.com

Typical Product Properties

PORON® VXT™ 4701-70-09xxx-118-59T-RR-16.4LF (LR11) – Data Sheet

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, kg /m³ (lb. / ft³) Tolerance, kg /m³ (lb. / ft³)	ASTM D 3574-95, Test A	144 (09) ± 8 (0.5)
Thickness, mm (inches) Tolerance, %		12.5 (0.492) | 25 (0.984) ± 10
Standard Color (Code)		Yellow (118)
Compression Force Deflection, kPa (psi) Typical, kPa (psi)	0.51 cm/min (0.2" / min). Strain Rate Force Measured @ 25% Deflection	13 - 21 (2 - 3) 18 (2.6)
Hardness, Durometer, Shore "OO", typical	ASTM D 2240-97	29
Compression Set, % max.	ASTM D 3574-95 Test D @ 70˚C (158˚F)	10
Resilience by Vertical Rebound, %, typical	ASTM D 2632-96	43
Dimensional Stability, % max. change	22 hrs @ 80°C (176°F) in a forced-air oven	± 3
Tensile Strength, kPa (psi), typical	ASTM D 3574-75 Test E	380 (55)
Tensile Elongation, %, typical	ASTM D 3574-75 Test E	220
Tear Strength, kN/m (pli), typical	ASTM D 264-91 Die C	2.1 (12.3)
ELECTRICAL AND THERMAL		
Dielectric Strength, kV/m (volts/mil)	ASTM D 149-97a	1220 (31)
Coefficient of Thermal Expansion		2.3-3.1 x 10^{-4} in./in./°C (1.3-1.7 x1^{4} in./in./°F)
TEMPERATURE RESISTANCE		
Recommended Constant Use, max.	Rogers Internal Method	90˚C (194˚F)
Recommended Intermittent Use, max.	Rogers Internal Method	121˚C (250˚F)
Embrittlement	ASTM D 746-98	-20˚C (-4˚F)
ENVIRONMENTAL		
Water Absorption, Immersion Testing, % weight gain, typical	ASTM D 570-95	25.6

These materials are unsupported and should be processed with the knowledge that stretching of die-cut parts can occur when material has not been relaxed.

Notes:

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

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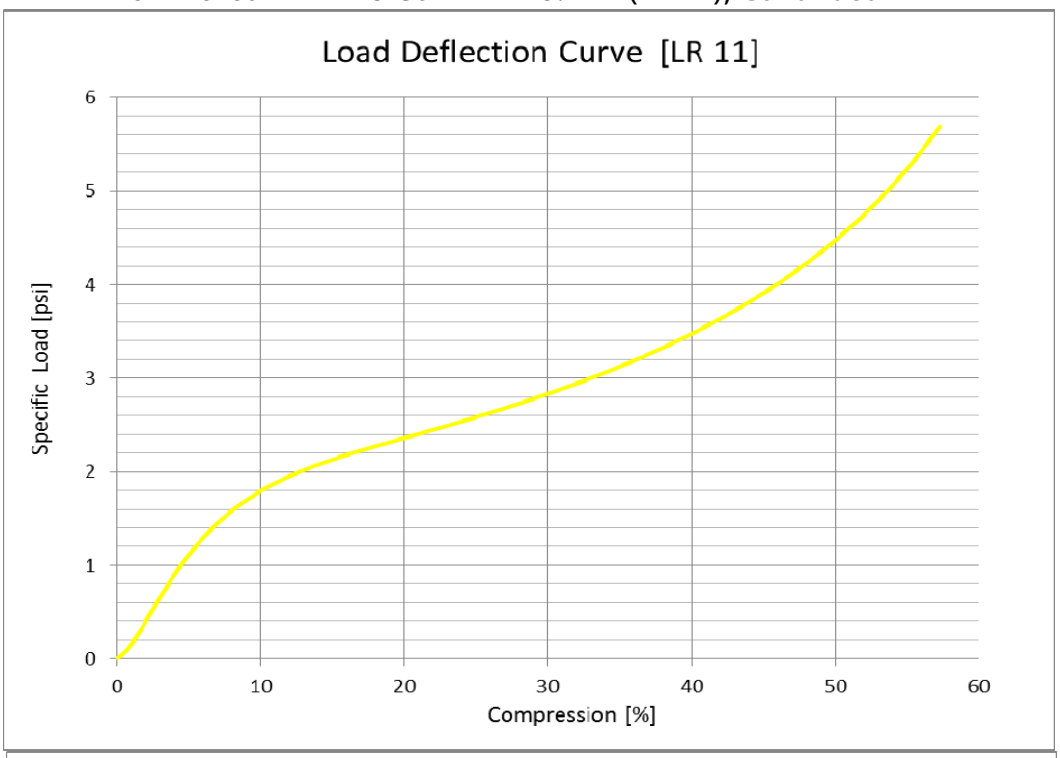
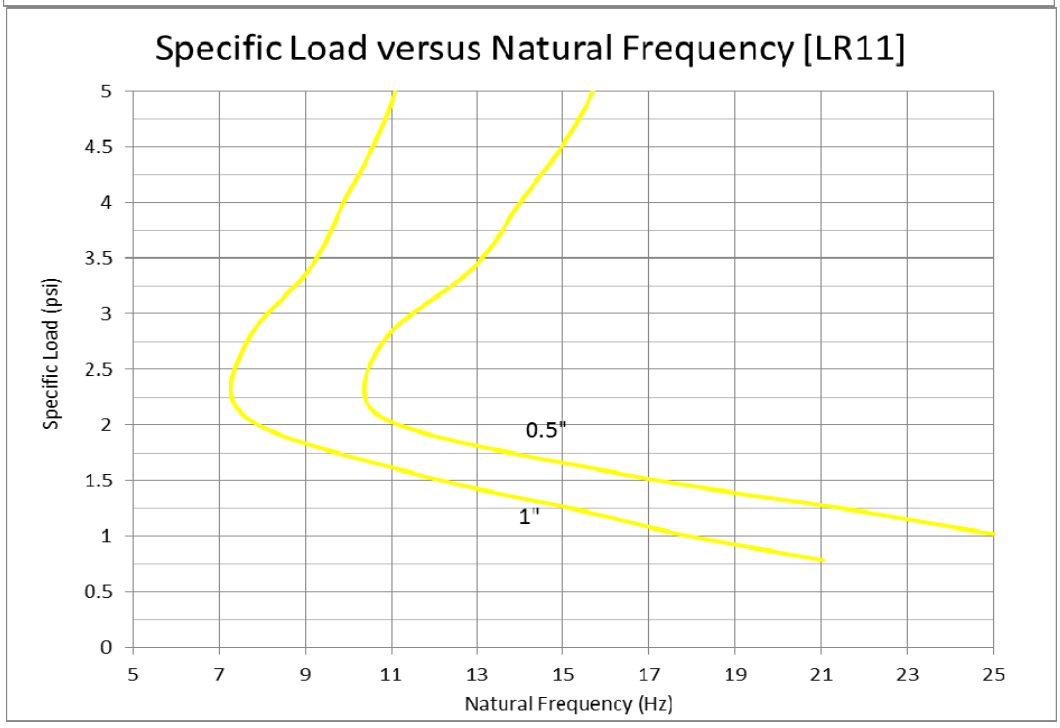
PORON® VXT™ 4701-70-09xxx-118-59T-RR-16.4LF (LR11), Continued





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