

PORON® VXT™ 4701-70-14xxx-117-59T-RR-16.4LF (LR42) – Data Sheet

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, kg /m ³ (lb. / ft ³) Tolerance, kg /m ³ (lb. / ft ³)	ASTM D 3574-95, Test A	232 (14.5) ± 8 (0.5)
Thickness, mm (inches) Tolerance, %		12.5 (0.492) 25 (0.984) ± 10
Standard Color (Code)		Purple (117)
Compression Force Deflection, kPa (psi) Typical kPa (psi)	0.51 cm/min (0.2" / min). Strain Rate Force Measured @ 25% Deflection	62 - 83 (9 - 12) 68 (9.8)
Hardness, Durometer, Shore "OO", typical	ASTM D 2240-97	57
Compression Set, % max.	ASTM D 3574-95 Test D @ 70°C (158°F)	15
Resilience by Vertical Rebound, %, typical	ASTM D 2632-96	54
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	910 (132)
Tensile Elongation, % typical	ASTM D 3574-75 Test E	380
Tear Strength, kN/m (pli), typical	ASTM D 264-91 Die C	5.3 (30.0)
ELECTRICAL AND THERMAL		
Dielectric Strength, kV/m (volts/mil)	ASTM D 149-97a	1340 (34)
Coefficient of Thermal Expansion		2.3-3.1 x 10 ⁻⁴ in./in./°C (1.3-1.7 x10 ⁻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	10.2

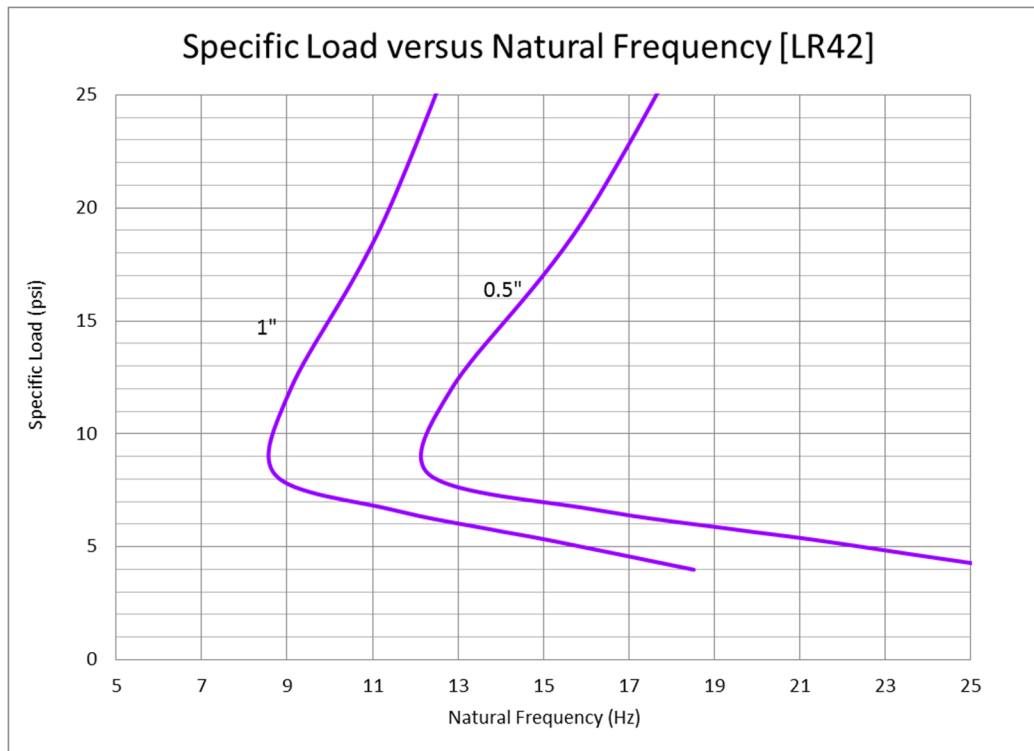
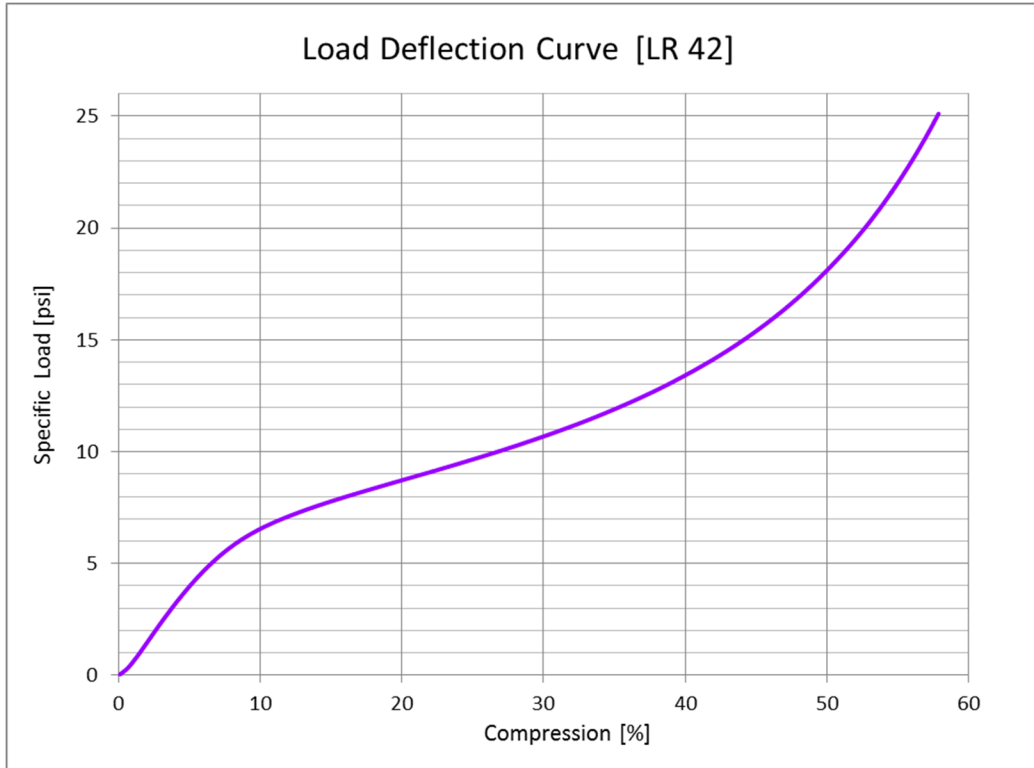
These materials are unsupported and should be processed with the knowledge that stretching of die-cut parts can occur when material has not been relaxed.

Notes:

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

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