ROGERS CORPORATION

PORON® Polyurethanes

Elastomeric Material Solutions
www.rogerscorp.com

Preliminary Product Properties

PORON® VXT™ 4701-70-13xxx-119-59T-RR-16.4LF (LR28)

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, kg /m^3 (lb. / ft^3)	ASTM D 3574-95, Test A	208 (13)
Tolerance, %		± 10
Thickness, mm (inches)		12.5 & 25 (0.492 & 0.984)
Tolerance, %		6.3 & 8.1
Standard Color (Code)		Blue (119)
Compression Force Deflection, kPa (psi) **Typical kPa (psi)**	.51 cm/min (0.2" / min). Strain Rate Force Measured @ 25% Deflection	34 - 55 (5-8) 45 (6.5)
Hardness, Durometer, Shore "OO", typical	ASTM D 2240-97	49
Compression Set, % max.	ASTM D 3574-95 Test D @ 70˚C (158˚F)	10
Resilience by Vertical Rebound, %, typical	ASTM D 2632-96	57
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	780 (114)
Tensile Elongation, % typical	ASTM D 3574-75 Test E	475
Tear Strength, kN/m (pli), typical	ASTM D 264-91 Die C	4.4 (25.0)
ELECTRICAL AND THERMAL		
Dielectric Strength, kV/m **(**volts/mil)	ASTM D 149-97a	1380 (35)
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)
FLAMMABILITY		
Flammability	UL 94HBF (File E20305) (Pending Certification) CSA Comp HBF (File 188149) (Pending Certification)	Pass Pass
ENVIRONMENTAL		
Water Absorption, Immersion Testing, % weight gain, typical	ASTM D 570-95	13.8

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