



ACT-820 SILICONE FOAM SPECIFICATIONS

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SPECIFICATIONS	TEST STANDARD	ACT-820 TYPICAL VALUES
PHYSICAL ITEMS		
Color	Per Request	Black, Grey, Brick Red, White
Thickness mm (in)		0.8~25mm (0.031 – 0.98")
Width mm (in)		T ≤ 7mm (0.276") : 914mm (36") T > 7mm (0.276") : Contact ACT
Density kg/m ³ (PCF)		420±40 (26.2±2.5)
Compression Set %	ASTM D1056-Test D	<5% 100°C
Compression Force Deflection kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	110±20 (16±2.9)
Tensile Strength kPa (psi)	ASTM D412	≥400 (≥58)
Elongation %	ASTM D412	≥85
FIRE, SMOKE & TOXICITY RESISTANCE		
Fire Resistance	UL94	V-0
Fire Spread Index	ASTM E162	<35
Smoke Density	ASTM E662	1.5min, <100 4.0min, <200
Toxic Gas Emission Rating	SMP-800C EN 45545-2 (CITg)	PASS CITg=0.04 (Passes HL3)
Railway Fire Protection Standard	EN 45545-2:2013	Meets R10 / HL1, HL2, HL3
ENVIRONMENTAL SPECIFICATIONS		
Water Absorption	Internal Test 24hours	≤5%
ELECTRICAL AND THERMAL CONDUCTIVITY		
Dielectric Strength kV/mm (Volts/mil)	ASTM D149	≥3.5 (≥88.9)
Volume Resistivity ohm·cm (ohm·in)	ASTM D257	≥1 x 10 ¹⁴ (≥3.93 x 10 ¹³)
Thermal Conductivity W/m·K (BTU in/hr/ft ² / °F)	ASTM C518	0.09±0.01 (0.624±0.069)
TEMPERATURE RESISTANCE		
Low Temperature Flex at -55°C (-67°F)	ASTM D1056	PASS
Working Temperature °C (°F)	SAE J2236	-55°C to 200°C (-67 °F to 392 °F)
MAX. Intermittent Temperature	Internal Test	250°C (482°F)

VALUE-ADDED SERVICES: Pressure-Sensitive Adhesive (PSA) lamination & custom slit rolls.

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