



ACT-1000 SILICONE FOAM SPECIFICATIONS

UL file number: E485840

SPECIFICATIONS	TEST STANDARD	AC -1000 TYPICAL VALUES
PHYSICAL ITEMS		
Color	Per Request	Black, Grey, Brick Red, White
Thickness mm (in)		0.8~25.4mm (0.031 – 1")
Width mm (in)		T ≤ 7mm (0.276") : 914mm (36") T > 7mm (0.276") : Contact ACT
Density kg/m ³ (PCF)		220±40 (13.7±2.5)
Compression Set %	ASTM D1056-Test D	≤5% (100 °C)
Compression Force Deflection kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	20 ±10 (2.9±1.45)
Tensile Strength kPa (psi)	ASTM D412	≥150 (≥21.75)
Elongation %	ASTM D412	≥70
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	≥2 (≥50.8)
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	0.06 ±0.01 (0.416±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.*

The data information is provided as a technical service and are subject to change without notice. To the extent the information is derived from sources other than ACT, ACT is substantially, if not wholly, relying upon the other source(s) to provide accurate information. Information provided as a result of ACT's own technical analysis and testing is accurate to the extent of our knowledge and ability, using effective standardized methods and procedures. Each user of these products, or information, should perform their own tests to determine the safety, fitness and suitability of the products, or combination of products. Since ACT cannot control the end use of this product, ACT does not guarantee that the user will obtain the same results as published in this document.