

TECHNICAL DATASHEET: HT-820 - Closed Cell Firm Cellular Silicone Foam

PRODUCT DESCRIPTION

Firm silicone foam exhibits enhanced sealing capabilities, with comparable tear and tensile strength of a traditional sponge rubber.

TYPICAL APPLICATIONS

- Environmental seals to protect against penetration of dust, moisture, air, or light within outdoor enclosures such as lightning features, HVAC units, and electronic cabinets
- Enclosures requiring a more durable, high closure force gasket

PRODUCT FEATURES & BENEFITS

- Patented chemistry and cell structure provide long term performance advantage
- Temperature independency
- UV/Ozone resistant
- Rated to most stringent flame standards

TECHNICAL DATA	VALUE	TEST METHOD / STANDARD
THICKNESS	1/32", 1/16", 3/32", 1/8", 3/16", 1/4"	
COLOR	Gray	
MATERIAL/SUBSTRATE	Silicone Foam	
DENSITY	24 lb/ft ³	
COMPRESSION FORCE DEFLECTION @ 25%	15.3 psi	ASTM D1056
COMPRESSION SET, 22 HOURS @ 212°F @ 50%	2.6%	ASTM D1056
THERMAL CONDUCTIVITY	0.09 W/m ² K	
ELONGATION (MINIMUM)	45%	ASTM D412
OZONE RESISTANCE	Yes	
UV RESISTANCE	Yes	
FLAME RETARDANT	Yes	
FLAME SPREAD INDEX (LS)	< 35	ASTM E162
FMVSS-302	Pass	
SMOKE DENSITY (Ds) @ 1.5 MINUTES	< 100	ASTM E662
SMOKE DENSITY (Ds) @ 4 MINUTES	< 200	ASTM E662
UL 94 HF-1	Pass	
UL 94 V0	Pass	
LOW TEMPERATURE FLEXIBILITY	-67°F	ASTM D1056
TENSILE STRENGTH	35 psi	ASTM D412
TEMPERATURE RANGE	-67°F to 392°F	

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. H-O will provide samples for this purpose at no charge. **REV. 0**