



COMPOUND AND SPECIFICATION DATA FOR SILICONE RUBBER 50 SHORE A MASTER FLASH®

TYPICAL PHYSICAL PROPERTIES OF MF SILICONE
ASTM D2000 M4GE 50S A19, B37, C12, F19, Z1, Z2, Z3, Z4.

PROPERTY		VALUE	TEST METHOD
BASE MATERIAL		SILICONE RUBBER	N/A
COLOR		COLORED	N/A
TEST LEVEL		4	GRADE
TEST TEMPERATURE		70 HS G 225° C	TYPE
VOLUME SWELL		MAX 80%	CLASS E
DUROMETER		50 +/-5 (SHORE)	ASTM D 2240
TENSILE STRENGTH		5 MPA (725 psi) MINIMUM	ASTM D 412
ULTIMATE ELONGATION		250 % MINIMUM	ASTM 412
A19	HEAT AGING	70 hrs. @ 225 C Change in hardness Max +10 pts Change in tensile Max -30 % Change in ultimate elong. Max -30%	ASTM D 573
B37	COMPRESSION SET	22 hrs. @ 175° C MAX 35%	ASTM D 395B
C12	OZONE RESISTANCE	70 hrs. @ 50 pphm 38° C 100% quality retention	ASTM D 1171
G11	TEAR RESISTANCE	DIE C	ASTM D 624
F19	LOW TEMPERATURE BRITTLENESS	3 MINUTES @ -75° C PASS	ASTM D 2137C, 9.3.3
Z1	TARGET HARDNESS	55 SHORE A	ASTM 2240
Z2	SPECIFIC RUBBER	SILICONE	N/A
Z3	HORIZONTAL FLAME RESISTANCE	NOT TO EXCEED 3 IN/ MINUTE	UL-94
Z4	ADVANCED OZONE REQUIREMENT	70 hrs. @ 500 pphm @ 38° C (100° F) PASS	ASTM D 1171

MASTER FLASH® IS A REGISTERED TRADEMARK OF THE MANUFACTURER AZTEC WASHER COMPANY, INC.
Specifications subject to change without notice.