

Data Sheet: S70 (Conductive)

MATERIAL: SILICONE 70 SHORE (ELECTRICITY CONDUCTIVE)

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -55°C to 225°C

SPECIFICATION: ASTM D2000-M7GE705 A19 B37 EO16 EO36

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
PRESS CURE @ 170 DEGREE C X 10 min		
POST CURE @ 200 DEGREE C X 4 hrs		
HARDNESS SHORE A	70 +/- 5	74
TENSILE STRENGTH, MPa	5.0	5.9
ELONGATION %	150	189
VOLUME RESISTIVITY, Ω -cm		10.0
SPECIFIC GRAVITY		1.172

HEAT AGEING 70 hrs @ 175°C

HARDNESS CHANGE, POINTS	+10	0
TENSILE STRENGTH CHANGE, %	-25	+2
ELONGATION CHANGE, %	-30	-6

CURING CONDITIONS

PRESS CURE @ 170 DEGREE C X 20 min		
POST CURE @ 200 DEGREE C X 4 hrs		
COMPRESSION SET 22 hrs @ 175°C, %	30	25.0

FLUID RESISTANCE, NO.1 OIL, 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	0/-15	-10
TENSILE STRENGTH CHANGE %	-20	-19
ELONGATION CHANGE %	-20	+42
VOLUME CHANGE %	0/+15	+8

FLUID RESISTANCE, NO.3.OIL 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	-40	-32
VOLUME CHANGE %	+60	+53

The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 15.12.2014