

MATERIAL DATA SHEET

SILICONE (ALSIL10245) BLACK

A high quality silicone compound with no secondary fillers.

SPECIAL CHARACTERISTICS

- Good mechanical properties
- Good flexibility
- Good resilience
- Retains properties at high and low temperatures
- Excellent resistance to UV ageing

TYPICAL PHYSICAL PROPERTIES

HARDNESS (Shore A ± 5) 40
APPEARANCE BLACK

HEAT RESISTANCE

MAXIMUM CONTINUOUS 250°C
MAXIMUM INTERMITTENT 300°C
LOW TEMPERATURE RESISTANCE -60°C
OXIDATION RESISTANCE EXCELLENT
OZONE & WEATHERING RESISTANCE OUTSTANDING

OIL RESISTANCE

* ASTM OIL No.1 @ 20°C EXCELLENT
* ASTM OIL No.1 @ 100°C FAIR
* ASTM OIL No.3 @ 20°C FAIR
* ASTM OIL No.3 @ 100°C FAIR

FUEL RESISTANCE

* ASTM FUEL B @ 40°C UNSUITABLE

SOLVENT RESISTANCE (20°C)

ALCOHOL GOOD
ACETONE FAIR
BENZENE UNSUITABLE

CHEMICAL RESISTANCE

ACIDS FAIR
BASES FAIR
PHYSICAL STRENGTH POOR
COMPRESSION SET GOOD
TEAR & ABRASION RESISTANCE POOR
RESILIENCE GOOD
PERMEABILITY TO GASES FAIRLY LOW
ELECTRICAL STRENGTH EXCELLENT
FLAME RESISTANCE GOOD
WATER RESISTANCE GOOD

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