

M1000 MATERIAL SUMMARY

70 Durometer, Black, MIL-P-25732 Buna-N

Request a Quote

M1000 is manufactured to MIL-P-25732 and is formulated to provide value with balance cost and performance. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

ABOUT #M1000

Most commonly used general purpose "MIL-SPEC" o-ring material because of relative low cost, good mechanical properties, and basic resistance to many common lubricants. Specific physical and chemical resistances vary by compound formulation.

FEATURES

- Meets MIL-P-25732
- Meets low temperature requirements for hydraulics in military aircraft
- · Relative low cost.
- Good/Excellent resistance to compression set and tear/abrasion.
- · Good/Excellent resistance to many petroleum oils/greases, hydraulic fluids, alcohol, ambient water, silicone greases, Diester base lubricants and ethylene-glycol based fluids.

APPLICATION EXAMPLES

- Automotive applications
- · Pneumatic applications
- · Hydraulic Application

ADDITIONAL INFORMATION

- · Service Temperature of -65° to 275°F
- Spec: ASTM D2000 M2BG706 B14 E014 E034 F17

This information is accurate and reliable to the best of our knowledge. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use.



M1000 MATERIAL SUMMARY

70 Durometer, Black, MIL-P-25732 Buna-N

Request a Quote

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	Black	Black
Tensile Strength, psi	870 min.	1900
Ultimate Elongation, %	150 min.	180
HEAT RESISTANCE – A14, ASTM D 573 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+/- 15	3
Tensile Strength Change, %	+/- 30	6
Ultimate Elongation Change, %	-50 max.	-15
COMPRESSION SET – B14, ASTM D 325 Method B (22 hrs.	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	25 max.	13
FLUID RESISTANCE – ASTM Oil #1 – E014, ASTM D 471(70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	-5 to +10	10
Tensile Strength Change, %	-25 max.	15
Ultimate Elongation Change, %	-45 max.	-17
Volume Change, %	-10 to +5	-10
FLUID RESISTANCE – IRM 903 Oil – E034, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	-10 to +5	-8
Tensile Strength Change, %	-45 max.	+15
Ultimate Elongation Change, %	-45 max	-9
Volume Change, %	0 to +25	9
LOW TEMPERATURE RESISTANCE – F17, ASTM D 2137 Method A, 9.3.2	ASTM D2000 Requirements	Typical Test Results
Non-brittle after 3 minutes at -40°C	Pass	Pass