



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V70-B103	MATERIAL	FKM
DUROMETER	70 Shore A	COLOR	Black
DESIGNATION	High Chemical Resistance	REPORT DATE	2017-06-19
TEMP RANGE	-26°C (-15°F) to 204°C (400°F)	CURE SYSTEM	-
SPECIFICATION	ASTM D2000 M2HK710 A1-10 F15 Z1 Z2		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15 ^{E1}	-	Shore A	71	70 ±5
Tensile Strength	D412-16	-	MPa (PSI)	18.6 (2,692)	10 (1,450) min
Elongation at Break	D412-16	-	%	335	175 min
Modulus at 100%	D412-16	-	MPa (PSI)	3.77 (547)	-
Density	CNS 5341-96, Method A	-	Mg/m ³	1.87	-

A1-10 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70 Hrs @ 250°C (482°F)	points	2	10 max
Tensile Strength Change	D573-04	70 Hrs @ 250°C (482°F)	%	-14	-25 max
Elongation Change	D573-04	70 Hrs @ 250°C (482°F)	%	29	-25 max
Weight Change	D573-04	70 Hrs @ 250°C (482°F)	%	-1.4	-

F15 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11, Method A	3 minutes at -25°C (-13°F)	-	pass	pass

Z1 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-16, Method B	70 Hrs @ 200°C (392°F) (plied)	%	23.3	30 max

ADDITIONAL APPROVALS

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Data shown is based on supplier testing of compound slabs/buttons and is provided for general reference only.