



# MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	H70-B701	MATERIAL	HNBR
DUROMETER	70 Shore A	COLOR	Green
DESIGNATION	General Purpose	REPORT DATE	2026-04-05
TEMP RANGE	-	CURE SYSTEM	-
SPECIFICATION	ASTM D2000 M3DH710 A26 B16 B36 EO16 EO36 F17		

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15	-	Shore A	73	70 ±5
Tensile Strength	D412-16	-	MPa (PSI)	17.4 (2,522)	10 (1,450) min
Elongation at Break	D412-16	-	%	395	200 min
100% Modulus	D412-16	-	MPa (PSI)	5.43 (788)	-
Density	CNS 5341-96, Method A	-	Mg/m <sup>3</sup>	1.37	-

## A26 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D865-11	70 Hrs @ 150°C (302°F)	points	2	10 max
Tensile Strength Change	D865-11	70 Hrs @ 150°C (302°F)	%	0	-25 max
Elongation Change	D865-11	70 Hrs @ 150°C (302°F)	%	-2	-30 max
Weight Change	D865-11	70 Hrs @ 150°C (302°F)	%	-0.2	-

## B16 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22 Hrs @ 150°C (302°F)	%	15.2	-

## B36 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22 Hrs @ 150°C (302°F) (plied)	%	28.3	50 max

## EO16 – FLUID RESISTANCE, IRM 901 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 150°C (302°F)	points	2	-5 to 10
Tensile Strength Change	D471-16a	70 Hrs @ 150°C (302°F)	%	12	-20 max

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Elongation Change	D471-16a	70 Hrs @ 150°C (302°F)	%	0	-30 max
Volume Change	D471-16a	70 Hrs @ 150°C (302°F)	%	-1.7	±5

### EO36 – FLUID RESISTANCE, IRM 903 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 150°C (302°F)	points	-5	-15 max
Tensile Strength Change	D471-16a	70 Hrs @ 150°C (302°F)	%	1	-30 max
Elongation Change	D471-16a	70 Hrs @ 150°C (302°F)	%	-9	-30 max
Volume Change	D471-16a	70 Hrs @ 150°C (302°F)	%	11.7	25 max

### F17 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11, Method C	3 minute @ -40°C (-40°F)	-	no crack	-

### ADDITIONAL APPROVALS

-
---

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