

Z534

EPDM 70 black perox FDA

Rev. O4

General Application Temperature Range

From -50°C
To +150°C

General Environmental Application

Water
Ozone
UV Rays
Food
Hydrogen

Curing System

Peroxide

Compliances

FDA Cfr 21 – 177.2600
3-A Sanitary
USP Class VI
Hydrogen Compatibility
according to SAE J2600,
clause 5.5.3

Disclaimer

Tests performed on test
slabs. Temperatures,
applications, and
indications are meant as
basic suggestions and valid
for static applications with
no other specific media
and or conditions.

PHYSICAL AND MECHANICAL PROPRIETIES

Property	Test STD	Unit	Value
Density	ISO 2781 A	g/cm ³	1.15 ± 0.03
Hardness	ASTM D2240	Shore A	70 ± 5
Tensile Strength	ISO 37	N/mm ²	>16
Elongation	ISO 37	%	>200

LOW TEMPERATURE RESISTANCE

Property	Test STD	Unit	Value
TR10	ISO 2921	°C	<-42

COMPRESSION SET TESTS

Parameters	TEST STD	Unit	Value
24h @ 150°C	ISO 815 B	%	<14
72h @ 150°C	ISO 815 B	%	<25

AGEING PROPERTIES

Heat Aging – 70h @ 100°C

Standard: ISO 188B

Properties	Unit	Value
Hardness	Shore A	+1.0
Tensile Strength	%	-8.0
Elongation	%	-12.0
Volume	%	-0.1
Weigth	%	-0.1

Heat Aging – 70h @ 125°C

Standard: ISO 188B

Properties	Unit	Value
Hardness	Shore A	+2.0
Tensile Strength	%	-15.0
Elongation	%	-15.0
Volume	%	-0.2
Weigth	%	-0.2

Heat Aging – 70h @ 150°C

Standard: ISO 188B

Properties	Unit	Value
Hardness	Shore A	+4.0
Tensile Strength	%	-25.0
Elongation	%	-25.0
Volume	%	-0.4
Weigth	%	-0.4

Water – 70h @ 100°C

Standard: ISO 1817

Properties	Unit	Value
Hardness	Shore A	-1.0
Tensile Strength	%	-4.0
Elongation	%	-7.0
Volume	%	+1.3
Weigth	%	+1.0

