

COMPOUND NUMBER

47702A

Description

Nitrile (NBR) 90 Shore A
Black
-25°C to 120°C

Improved performance in high pressure applications.

ORIGINAL PHYSICAL PROPERTIES

		Units	Test Method
Tensile Strength	10 to 22	<i>MPa</i>	ASTM D412
Elongation	80 to 125	%	ASTM D412
Hardness	90 ± 5	<i>Shore A</i>	ASTM D2240

SEALING PROPERTIES

	25% Squeeze	Units	Time	Temperature	Test Method
			<i>Hours</i>	<i>°C</i>	
Compression Set	5 to 25	%	22	100	ASTM D395-B

THERMAL PROPERTIES

	Δ Hardness	Δ Tensile	Δ Elongation	Time	Temperature	Test Method
	<i>Pts.</i>	%	%	<i>Hours</i>	<i>°C</i>	
Heat Aging	±15	±30	-50 Max.	70	100	ASTM D573

FLUID IMMERSION PROPERTIES

	Δ Hardness	Δ Tensile	Δ Elongation	Δ Volume	Time	Temperature	Test Method
	<i>Pts.</i>	%	%	%	<i>Hours</i>	<i>°C</i>	
ASTM Fuel B	-30 to 10	-60 Max.	-60 Max.	0 to +40	70	23	ASTM D471
IRM 901 Oil	-5 to +10	-25 Max.	-45 Max.	±10	70	100	ASTM D471
IRM 903 Oil	-10 to +5	-45 Max.	-45 Max.	0 to +25	70	100	ASTM D471