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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK2181a
DATE: 11/18/92

TITLE: Evaluation of Parker Compound N1206-70
PURPOSE: To obtain general information.

Recommended temperature limits: -40^0F to $300/325^0$F

Recommended For
Low temperature
Petroleum based hydraulic oil, motor oil, transmision fluid, grease
R134a
Water/glycol/steam
HFA, HFB, and HFC fluids
Ozone, aging, and weather resistance

Not Recommended For
Polar solvents (ketones and esters)
Strong acids
Chlorinated hydrocarbons
Auto and aircraft brake fluids

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REPORT DATA

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ORIGINAL PHYSICAL PROPERTIES	PLATENS	PARKER N1206-70 O-RINGS
Density (ISO 1183, Method A/ASTM D 297)	1.19	1.20
Hardness, International (ISO 48/ASTM D 1415)	69	67 (Shore A)
Hardness, Durometer A (ISO 868/ASTM D2250, instantaneous, plied-up specimen, Hand held durometer shall not be used.)	70	
Tensile Strength, min, MPa (psi) (ISO 37/ASTM D 412, Die C)	15.7 (2278)	13.6 (1970)
Elongation at Break, min. (ISO 37/ASTM D 412, Die C)	203	
Modulus@100% Elongation, min, MPa (psi) (ISO 37/ASTM D 412, Die C)	6.0 (870)	
Tear Strength, min kN/m (ppi) (ISO 34, Method B, procedure (a)/ ASTM D 624, Die C)	36 (206)	
Brittleness Point, max. (ISO 812, Type B specimen/ ASTM D 2137, Method A	Pass	
Ozone Resistance, max (FLTM BP 101-01, Procedure A)	Rating 0	
Compression Set, max. (ISO 815/ASTM D 395, Method B except 25% compression, plied-up Type 1 specimens, 70 hrs. @ 150° ± 2° C)	24	29.4
HEAT AGED (ISO 188/ASTMD375, 150 ± 50 AIR CHANGES/h 168 HRS @ 150° ± 2° C)		
Hardness Change, pts.	+4	
Tensile Strength Change, max	-2	
Elongation Change, max	-21	
HEAT AGED (ISO 188/ASTMD573, 150 ± 50 AIR CHANGES/h 168 HRS @ 125° ± 2° C)		
Hardness Change, pts.	+2	
Tensile Strength Change, max	-3.3	
Elongation Change, max	-2.4	
Visual Evaluation : No surface tackiness or cracks when folded flat against itself.	No Tackiness or Cracks	

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IMMERSION IN OIL NO.1	
(ISO 1817/ASTM D 471, 162 HRS @ 150° ± 2° C	
Hardness Change, pts.	-1
Tensile Strength Change, max	+10
Elongation Change, max	+18
Volume Change	-1
Visual Evaluation:	No Tackiness
No surface tackiness or cracks when folded flat against itself.	or Cracks

IMMERSION IN OIL NO. 3	
(ISO 1817/ASTM D 471, 162 HRS @ 150 ± 2° C	
Hardness Change, pts.	-11
Tensile Strength Change, max	-25
Elongation Change, max	-17
Volume Change	+24
Visual Evaluation:	
No surface tackiness or cracks when folded flat against itself.	

IMMERSION IN REFRIGERANT -134A WITH PAG LUBRICANT (WSH-MIC231-A)	
168 HRS @ 23° ± 2° C	
Hardness Change, pts.	-5
Tensile Strength Change, max	-30
Elongation Change, max	-13
Volume Change	+4
Visual Evaluation:	No Tackiness
No surface tackiness or cracks when folded flat against itself.	or Cracks

IMMERSION IN SILICON FLUID (ESF-M99B112-A)	
(ISO 1817/ASTM D 471, 168 HRS @ 23° ± 2° C	
Hardness Change, pts.	-1
Tensile Strength Change, max	9.4
Elongation Change, max	-1.0
Volume Change	-1.0

LOW TEMPERATURE RETRACTION	
(TR - 10,° C (°F) (ASTM D 1329)	-35.5 (-31.9)

	PARKER N1206-70 O-RINGS
FINISHED PART	
ORIGINAL PROPERTIES	
Density	1.20
(ISO 1183, Method A/ASTM D 297)	
Hardness, International	67 (Shore A)
(ISO 48/ASTM D 1415)	
Tensile Strength, min	13.6 (1970)
(ISO 37/ASTM D 412, Die C)	
Elongation at Break, min	298%

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(Test Method according to para 3.5.4)	
Modulus at 100% Elongation, min	3.14 (456)
(Test Method according to para 3.5.4)	
Compression Set, max.	29.4
(ISO 815/ASTM D 395, Method B except 25% compression, plied-up specimens, 70 hrs. @ 135°± 2° C)	
HEAT AGED	
(ISO 188/ASTMD573,	
150 ± 50 AIR CHANGES/h	
1000 HRS @ 125° ± 2° C)	
Hardness Change, pts.	+1
Tensile Strength Change, max	+23
Elongation Change, max	-32.6
Visual Evaluation:	No Tackiness
No surface tackiness or cracks when folded flat against itself.	or Cracks
IMMERSION IN REFRIGERANT -134A WITH	
PAG LUBRICANT (WSH-MIC231-A)	
1000 HRS @ 23° ± 2° C	
Hardness Change, pts.	-4
Tensile Strength Change, max	+4
Elongation Change, max	-8
Volume Change.	+9

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