



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V75-B105	MATERIAL	FKM
DUROMETER	75 Shore A	COLOR	Black
DESIGNATION	John Deere JDM	REPORT DATE	2020-12-07
TEMP RANGE	-25°C (-13°F) to 250°C (482°F)	CURE SYSTEM	Bisphenol
SPECIFICATION	-		

PHYSICAL PROPERTIES – 200 °C (392 °F)

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change, IRHD	D2240	70 Hrs @ 200°C (392°F) (ASTM D865-11) (O-ring : CS=3.53mm)	points	1	0 to 7

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness, (IRHD)	D1415-18	-	Shore A	72	68 to 82

COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
(C/S 1.78mm)	D1414-15	70 Hrs @ 200°C (392°F)	-	18.8	-
(C/S 2.62mm)	D1414-15	70 Hrs @ 200°C (392°F)	-	16.4	-
(C/S 3.53mm)	D1414-15	70 Hrs @ 200°C (392°F)	-	17	-
(C/S 5.33mm)	D1414-15	70 Hrs @ 200°C (392°F)	-	15	-
(C/S 6.99mm)	D1414-15	70 Hrs @ 200°C (392°F)	-	14.4	-
(C/S 1.78mm)	D1414-15	1000 Hrs @ 200°C (392°F)	-	54.4	-
(C/S 2.62mm)	D1414-15	1000 Hrs @ 200°C (392°F)	-	54.6	-
(C/S 3.53mm)	D1414-15	1000 Hrs @ 200°C (392°F)	-	53.9	-
(C/S 5.33mm)	D1414-15	1000 Hrs @ 200°C (392°F)	-	54.1	-
(C/S 6.99mm)	D1414-15	1000 Hrs @ 200°C (392°F)	-	53.6	-

FLUID RESISTANCE – IRM 901 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change, IRHD	D2240	70 Hrs @ 200°C (392°F) (ASTM D471-16a) (O-ring : CS=3.53mm)	points	0	±5
Volume Change	-	70 Hrs @ 200°C (392°F) (ASTM D471-16a) (O-ring : CS=3.53mm)	%	0.3	0 to 3

LOW TEMPERATURE – LOW TEMPERATURE RETRACTION TEST

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
TR10, °C	-	-	-	-15.8	-15 max
Low-Temperature Brittleness Point, 5 Hrs @ -35°C (JDQ 112) (O-ring : CS=3.53mm)	-	-	-	-	-

ADDITIONAL APPROVALS

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