
Compound A80101 Data Sheet

Material: AFLAS
80 Durometer, Black

General Information:

AFLAS is unique due to its resistance to petroleum products, steam, phosphate esters and brake fluids. In some respects, it exhibits media compatibility properties similar to ethylene propylene and fluorocarbon. It has fair resistance to brake fluids and phosphate esters while exhibiting good resistance to petroleum oils.

Cure System: *Peroxide-cured*

Peroxide-cured compounds typically provide increased compression set resistance, higher temperature performance, higher ultimate tensile strength, and increased chemical resistance.

Temperature Range: -10°C (14°F) to 220°C (428°F)

Attributes:

Color: Black

Durometer Shore A: 80±5

Shelf-life: Unlimited

Asahi 100S Polymer

Performs Well In:

- Petroleum fluids
- Brake fluids
- Bases
- Phosphate esters
- Amines
- Engine oils
- Steam and hot water
- Pulp and paper liquids

Doesn't Perform Well In:

- Aromatic fuels
- Ketones
- Chlorinated hydrocarbons

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SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	TYPICAL RESULTS	ASTM TEST METHOD
TEST REPORT FOR COMPOUND A80101 MATERIAL: AFLAS - ASAHI 100S POLYMER DUROMETER: 80 COLOR: BLACK ASTM* D2000 M2HK810 A1-10 B37 B38				
-	ORIGINAL PHYSICAL PROPERTIES			-
	Hardness, Shore A, pts	80±5	81	-
	Tensile Strength, psi, min	1450	2772	-
	Elongation, min, %	150	224	-
	Tear Resistance, Kg/cm (Die C)		41	-
	Modulus @ 100%, psi		1256	D412
	Modulus @ 200%, psi		2641	D412
	Specific Gravity		1.62	-
A	HEAT AGE			D573
	70 hours at 250°C			
	Hardness Change, pts, Shore A		0	
	Tensile Strength Change, %		-20	
	Elongation Change, %		-14	
A	HEAT AGE			D573
	70 hours at 275°C			
	Hardness Change, pts, Shore A		-1	
	Tensile Strength Change, %		-58	
	Elongation Change, %		-6	
B37	COMPRESSION SET			D395
	22 hours at 175°C, %	50%(plied)(max)	47	
B38	COMPRESSION SET			D395
	22 hours at 200°C, %		50	
-	OIL RESISTANCE, SERVICE LIQUID NO. 101 OIL			D471
	70 hours at 200°C			
	Hardness, Shore A		-22	
	Tensile Strength Change, %		-31	
	Elongation Change, %		+22	
-	OIL RESISTANCE, MOBIL JET OIL II			D471
	70 hours at 200°C			
	Hardness, Shore A		-15	
	Tensile Strength Change, %		-26	
	Elongation Change, %		+15	
-	FUEL C RESISTANCE			D471
	70 hours at 23°C			
	Hardness, Shore A		-41	
	Tensile Strength Change, %		-66	
	Elongation Change, %		-36	
	Volume Change, %		+75.9	

*American Society for Testing and Materials

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate prior to use.

Date: 3/8/2019