

Material Test Report

Compound A90101

AFLAS[®], Black, General Purpose

GENERAL		
Material:	AFLAS [®]	
Durometer:	90	
Color:	Black	
ASTM* D2000 Callout:	M3HK910 A1-10 B37 B38	
ORIGINAL PROPERTIES	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
Hardness, (Shore A) (ASTM D2240-15*1)	90±5	89
Tensile Strength, psi(MPa) (ASTM D412-16)	1450(10)(min)	2650(18.28)
Elongation,%(ASTM D412-16)	100(min)	113
Modulus at 100%, psi(MPa) (ASTM D412-16)		2302(15.88)
Density, (Mg/m ³) (CNS 5341-96, Method A)		1.67
HEAT AGE, A1-10 (70 hrs. @ 250°C)	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
Hardness Change, pts., ASTM D573-04	+10(max)	+4
Tensile Strength Change, %, ASTM D573-04	-25(max)	-2
Elongation Change, %, ASTM D573-04	-25(max)	-5
Weight Change, %, ASTM D573-04		-2.1
COMPRESSION SET, B37 (22 hrs. @ 175°C)	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
ASTM D395-18, Method B	30%(plied)(max)	23.5
COMPRESSION SET, B38 (22 hrs. @ 200°C)	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
ASTM D395-18, Method B	50%(plied)(max)	25.8

*American Society for Testing and Materials

Report Date: 8/22/2022

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.