

Material Datasheet

Compound #: V95-Z101

Rapid Gas Decompression, Parker V1238-95

Material Summary

Material Type:	Fluorocarbon (FKM)
Durometer:	95
Color:	Black
Special Properties:	Rapid Gas Decompression (RGD), NORSOK M-710 Approved
Recommended Temperature Range (Static):	-26°C (-15°F) to 204°C (400°F)
Meets Specification:	Parker V1238-95

Explosive decompression test conditions (Test samples: V1238-95 AS568-227 O-rings)

Typical physical properties

Hardness, Shore A	94
Tensile strength, psi	2610
Elongation, %	70
50% Modulus, psi	1710
Compression set (70 hrs @ 392°F)	23.5%

Test 1 (75°F, 1000 ml CO₂, 820 psig, 120 hrs)

Hardness change, Shore M, pts	-3
Volume change, %	+24
Weight change, %	+9
Tensile strength change, %	-57
Elongation change, %	-12
50% Modulus change, %	-53
20 Second decay (820 to 0 psig)	Good, medium swell
Visual appearance	No damage

Test 2 (250°F, 1000 ml CO₂, 1000 psig, 72 hrs)

Hardness change, Shore M, pts	-2
Volume change, %	+3
Weight change, %	+2
Tensile strength change, %	-36
Elongation change, %	-13
50% Modulus change, %	-34
20 Second decay (820 to 0 psig)	Excellent, low swell
Visual appearance	No damage

Test 3 (75°F, 1000 ml CO₂, 1000 psig, 72 hrs)

Hardness change, Shore M, pts	-3
Volume change, %	+3
Weight change, %	+2

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Tensile strength change, %	-59
Elongation change, %	-32
50% Modulus change, %	-41
20 Second decay (820 to 0 psig)	Good, low swell
Visual appearance	No damage
Explosive decompression test conditions (Test samples: V1238-95 AS568-227 O-rings)	
Typical physical properties	
Hardness, Shore A	94
Tensile strength, psi	2402
Elongation, %	75
50% Modulus, psi	1632
Compression set (70 hrs @ 392°F)	20.60%
PI Extrusion test, 302°F, 0.0626" gap	
Failure pressure, psi	510
Visual appearance or degradation	Light Extrusion

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.