



Fusion® 938

Sealing Solutions

Compound No./Material Name: Fusion® 938	Rubber Classification: (ASTM D1418) FKM	Service Temperature Range: -35°F to 450°F (-37°C to 232°C)	Color: Black
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Typical Properties			
Original Properties	ASTM Method	Units	Typical
Specific Gravity	D792	-	1.88
Hardness, Type A, Points	D2240	-	90
Tensile Strength @ Break	D412	psi [MPa]	3400 [23.4]
Elongation	D412	%	94
Modulus @ 50% Elongation	D412	psi [MPa]	1310 [9.1]
Tensile Strength @ Break, O-rings	D1414	psi [MPa]	3454 [23.8]
Elongation, O-rings	D1414	%	122
Modulus @ 50% Elongation, O-rings	D1414	psi [MPa]	960 [6.6]
Tear Strength	D624, Die C	lb/in [kg/cm]	137.8 [24.6]
Glass Transition, T _g	D3418	[°F] [°C]	-13 [-25.0]
Compression Set @ 25% Deflection			
22 hours @ 300°F [149°C] in Air, % of Original Deflection	D395, B	%	8
22 hours @ 392°F [200°C] in Air, % of Original Deflection	D395, B	%	10
22 hours @ 392°F [200°C] in Air, % of Original Deflection, O-rings	D1414	%	22
70 hours @ 392°F [200°C] in Air, % of Original Deflection	D395, B	%	14
70 hours @ 392°F [200°C] in Air, % of Original Deflection, O-rings	D1414	%	37
Low Temperature Torsional Stiffness			
Relative Modulus Temperature, T ₂	ISO 1432	[°F] [°C]	12.7 [-10.7]
Relative Modulus Temperature, T ₅	ISO 1432	[°F] [°C]	-4.7 [-20.4]
Relative Modulus Temperature, T ₁₀	ISO 1432	[°F] [°C]	-9.4 [-23.0]
Rapid Gas Decompression			
ISO 23936-2 Annex B and NORSOK M710 Rapid Gas Decompression, -325 O-rings	-	-	Rating 0000-PASS
Notes			
Unless otherwise noted, all tests performed on ASTM slabs and buttons. For reference only, not for specification.			

Greene Tweed

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