

Test data provided by raw material manufacturer or an ISO 17025 registered 3rd party lab.
Original test data is stored in the Darcoïd Compound Database



9/28/2021

Darcoïd Compound 5069

COMPOUND DATA SHEET

VMQ, 50 Shore A

This compound will meet or exceed the specifications listed and has the following physical properties:
AMS 3302; A-A-59588 (ZZ-R-765) Class 2A, 2B Grade 50

ORIGINAL PROPERTIES	TEST METHOD	SPEC	RESULT	EVAL
Hardness, Shore A Durometer	D-2240	50±5	50	PASS
Modulus at 100% elongation, psi, max.	D-412-C	450	225	PASS
Tensile Strength, min, psi	D-412-C	700	950	PASS
Ultimate Elongation, %, min.	D-412-C	200	425	PASS
Specific Gravity	D-297	result	1.18	PASS

TEAR RESISTANCE	TEST METHOD	SPEC	RESULT	EVAL
Tear Strength, lb/in, min.	D-624-B	+35	+101	PASS

AIR AGING	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 225°C	D-573			
Hardness Change, Shore A, max.	D-2240	±10	+6	PASS
Tensile Strength Change, %, max.	D-412-C	-20	-6	PASS
Elongation Change, %, max.	D-412-C	-40	-28	PASS
Bend (flat)		No Cracks	No Cracks	PASS

COMPRESSION SET	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 150°C	D-395-B			
Permanent Set, %, max.	AMS 3302 and A-A-59588 Class 2B Grade 50	+25	+12	PASS
Permanent Set, %, max.	A-A-59588 Class 2A Grade 50	+30	+12	PASS

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ASTM #1 OIL IMMERSION	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 150°C	D-471			
Hardness Change, Shore A.	D-2240	-15 to +5	-8	PASS
Tensile Strength Change, %, max.	D-412-C	-25	-11	PASS
Elongation Change, %, max.	D-412-C	-20	-8	PASS
Volume Change, %	D-471	0 to +15	+7	PASS
Decomposition	ASM 3302	None	None	PASS
Surface tackiness	ASM 3302	None	None	PASS

WATER IMMERSION	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	A-A-59588 Class2A, 2B Grade 50			
Volume Change, %, max.	D-471	+5	+2	PASS

LOW TEMP BRITTLINESS	TEST METHOD	SPEC	RESULT	EVAL
3 min @ -65°C	D-2137			
(-62.2° C for A-A-59588 Class 2A, 2B Grade 50)		No Cracks	No Cracks	PASS

YOUNG'S MODULUS, ksi	TEST METHOD	SPEC	RESULT	EVAL
5 HRS. @ -50°C	D-797, ASM 3302			
Young's Modulus, ksi, max.		10	7.5	PASS

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