

COMPOUND: D04070-22

LINE CALL OUT: ASTM D2000 M4 AA 710 A13 B13 B33 Z1
ASTM D2000 M3 BA 710 B13 Z1
Z1 = 100% EPDM

TYPE: 70 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.198	Calc.
Tensile, psi ASTM D-412	1633	> 1450
Elongation, % ASTM D-412	337	> 250
Durometer, pts. ASTM D-2240	73	65 - 75
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 1	+ 10 max
- Change in Tensile, %	+ 7.2	- 25 max
- Change in Elongation, %	+ 0.6	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 4	± 15 max
- Change in Tensile, %	+ 9.6	± 30 max
- Change in Elongation, %	- 30.3	- 50 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	12.9	< 25

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COMPOUND: D04060-22

LINE CALL OUT: ASTM D2000 M4 AA 610 A13 B13 B33 Z1
ASTM D2000 M3 BA 610 B13 Z1
Z1 = 100% EPDM

TYPE: 60 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.165	Calc.
Tensile, psi ASTM D-412	1652	> 1450
Elongation, % ASTM D-412	476	> 350
Durometer, pts. ASTM D-2240	63	55 - 65
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 1	+ 10 max
- Change in Tensile, %	+ 2.0	- 25 max
- Change in Elongation, %	- 7.1	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 3	± 15
- Change in Tensile, %	+ 5.6	± 30
- Change in Elongation, %	- 27.9	- 50 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	14.3	< 25

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COMPOUND: D04160-01

LINE CALL OUT: ASTM D2000 M2 DA 610 A26 B36 C32 G11 G21 Z1 Z2 Z3 Z4 Z5
 ASTM D2000 M4 CA 610 A25 B35
 ASTM D2000 M3 BA 610 A14 B13 Z6
 Z1 = Heat resistance 70 hrs @ 100C
 Z2 = Heat resistance 70 hrs @ 125C
 Z3 = Compression set 22 hrs @ 70C
 Z4 = Compression set 22 hrs @ 100C
 Z5 = Compression set 22 hrs @ 125C
 Z6 = Low Temperature Brittleness 3 min @ -55 F

TYPE: 60 Durometer Black EPDM (Peroxide)

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.20	Calc.
Tensile, psi ASTM D-412	1582	> 1450
Elongation, % ASTM D-412	449	> 350
Durometer, pts. ASTM D-2240	58	55 - 65
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 1	+ 10 max
- Change in Tensile, %	- 8	- 25 max
- Change in Elongation, %	- 3	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 125C)		
- Change in Hardness, pts.	+ 3	+ 10 max
- Change in Tensile, %	- 5	- 20 max
- Change in Elongation, %	+ 4	- 40 max

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COMPOUND: D04065-22

LINE CALL OUT: ASTM D2000 M4 AA 610 A13 B13 B33 Z1 Z2
 ASTM D2000 M3 BA 610 B13 Z1 Z2
 Z1 = 100% EPDM
 Z2 = 65 Durometer

TYPE: 65 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.173	Calc.
Tensile, psi ASTM D-412	1623	> 1450
Elongation, % ASTM D-412	467	> 350
Durometer, pts. ASTM D-2240	66	60 - 70
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 1	+ 10 max
- Change in Tensile, %	+ 1.6	- 25 max
- Change in Elongation, %	- 13.5	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 3	± 15 max
- Change in Tensile, %	+ 7.3	± 30 max
- Change in Elongation, %	- 31.9	- 50 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	13.3	< 25

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COMPOUND: D14070-01

LINE CALL OUT: ASTM D2000 M4 BA 710 A14 Z1 Z2
 Z1 = 100% EPDM
 Z2 = Non-Nitrosamine

TYPE: 70 Durometer White EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.62	Calc.
Tensile, psi ASTM D-412	1569	> 1450
Elongation, % ASTM D-412	558	> 250
Durometer, pts. ASTM D-2240	71	65 - 75
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 3	+ 10 max
- Change in Tensile, %	- 11.7	- 25 max
- Change in Elongation, %	- 10.7	- 25 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	34.4	< 50

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COMPOUND NUMBER: D04170-02

LINE CALL OUT: ASTM D2000 M2 DA 710 F19 G11 G21 Z1 Z2 Z3
 Z1 – 100% EPDM
 Z2 – Low Temp Brittleness per ASTM D 746
 Z3 – RoHS Compliant

TYPE: 70 Durometer Black EPDM

<u>PROPERTY</u>	<u>TYPICAL VALUES</u>
Tensile, psi ASTM D-412	2043
Elongation, % ASTM D-412	258
Durometer, pts. ASTM D-2240	68
Heat Resistance: ASTM D-2000 (70hrs @ 100C)	
- Change in Tensile, %	-2.2
- Change in Elongation, %	+8.7
- Change in Hardness, pts.	+ 2
Heat Resistance: ASTM D-2000 (70hrs @ 125C)	
- Change in Tensile, %	-0.1
- Change in Elongation, %	+8.7
- Change in Hardness, pts.	+ 4
Heat Resistance: ASTM D-2000 (70hrs @ 150C)	
- Change in Tensile, %	-4.7%
- Change in Elongation, %	+3.5%
- Change in Hardness, pts.	+6
Compression Set, % ASTM D-395 (22 hrs @ 70C)	13.3
Compression Set, % ASTM D-395 (22 hrs @ 100C)	8.7

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COMPOUND: D04080-22

LINE CALL OUT: ASTM D2000 M2 AA 810 A13 B13 B33 Z1
 ASTM D2000 M4 BA 810 B13 Z1
 Z1 = 100% EPDM

TYPE: 80 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.217	Calc:
Tensile, psi ASTM D-412	1684	> 1450
Elongation, % ASTM D-412	261	> 150
Durometer, pts. ASTM D-2240	80	75 - 85
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 0	+ 10 max
- Change in Tensile, %	+ 5.8	- 25 max
- Change in Elongation, %	- 9.2	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 3	± 15 max
- Change in Tensile, %	+ 17.8	± 30 max
- Change in Elongation, %	- 32.6	- 50 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	22.4	< 25

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COMPOUND: D04085-22

LINE CALL OUT: ASTM D2000 M2 AA 810 A13 B13 B33 Z1 Z2
 ASTM D2000 M4 BA 810 B13 Z1 Z2
 Z1 = 100% EPDM
 Z2 = 85 Durometer

TYPE: 85 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.235	Calc.
Tensile, psi ASTM D-412	1526	> 1450
Elongation, % ASTM D-412	209	> 150
Durometer, pts. ASTM D-2240	82	80 - 90
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 1	+ 10 max
- Change in Tensile, %	+ 7.5	- 25 max
- Change in Elongation, %	- 0.0	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 3	± 15 max
- Change in Tensile, %	+ 14.9	± 30 max
- Change in Elongation, %	- 22.0	- 50 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	22.4	< 25

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COMPOUND: D04080-05

LINE CALL OUT: ASTM D2000 M2 AA 810 A14 B13 Z1 Z2
 ASTM D2000 M4 BA 810 A14 B13 Z1 Z2
 Z1 = 100% EPDM
 Z2 = Nitrosamine Free

TYPE: 80 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.22	Calc.
Tensile, psi ASTM D-412	1657	> 1450
Elongation, % ASTM D-412	244	> 150
Durometer, pts. ASTM D-2240	82	75 - 85
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 1	± 15 max
- Change in Tensile, %	+ 2.9	± 30 max
- Change in Elongation, %	- 7.0	- 50 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 3	+10 max
- Change in Tensile, %	+13.1	- 25 max
- Change in Elongation, %	- 20.9	- 25 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	23.5	< 25

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COMPOUND: S04001-06

LINE CALL OUT: ASTM D1056 2A1 B2 Z1 Z2
 Z1 = RoHS Compliant
 Z2 = FMVSS 302 Flammability

TYPE: EPDM Black Sponge for LCM or Hot Air Cure

PROPERTY	RESULT	LIMITS
DENSITY, pcf	8.3	9 ± 3
COMPRESSION DEFLECTION, 25%, psi (ASTM D 1056-98)	3.8	2 - 5
WATER ABSORPTION, % (ASTM D 1056-98)	3.7%	10.0%
COMPRESSION SET (ASTM D 1056-98, SUFFIX B2) 22 hrs. @ 23° C, 50% deflection 24 hr. recovery, % Set	14.3%	25%
COMPRESSION SET (ASTM D 1056-98, SUFFIX B1) 22 hrs. @ 70° C, 50% deflection 0.5 hr. recovery, % Set	91.3%	NA
HEAT RESISTANCE: COMPRESSION DEFLECTION (ASTM D 1056-98) Oven-aged 7 days @ 70° C Change from original C/D value, %	+4.5%	± 30%
FLAMMABILITY, FMVSS 302, (SUFFIX Z2) Burn rate, (mm/min)	PASS (Self-Extinguishing)	100 max

Dependent on the cross-sectional area of the profile, data range

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COMPOUND: S04001-16
 LINE CALL OUT: ASTM D1056 2A1 B3
 TYPE: Ultra-Low Density Black EPDM Sponge for Extrusion

PROPERTY	RESULT	LIMITS
DENSITY, pcf	5.4	5 ± 2
COMPRESSION DEFLECTION, 25%, psi (ASTM D 1056-98)	3.8	2 – 5
WATER ABSORPTION, % (ASTM D 1056-98)	3.8	10 max
COMPRESSION SET (ASTM D 1056-98, SUFFIX B3) 22 hrs. @ 23° C, 50% deflection 24 hr. recovery, % Set	32.8	35 max
HEAT RESISTANCE: COMPRESSION DEFLECTION (ASTM D 1056-98) Oven-aged 7 days @ 70° C Change from original C/D value, %	+1.3	± 30

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COMPOUND: S04002-03

LINE CALL OUT: ASTM D1056 2A2 B2 Z1 Z2 Z3 Z4

TYPE: Low Density Black EPDM Sponge for LCM Cure
 Z1 = RoHS Compliant
 Z2 = IMDS Compliant
 Z3 = Non-nitrosamine
 Z4 = FMVSS 302 Flammability

PROPERTY	RESULT	LIMITS
*DENSITY, pcf	14.5	
*COMPRESSION DEFLECTION, 25%, psi (ASTM D 1056-98)	7.6	5 - 9
*HEAT RESISTANCE: COMPRESSION DEFLECTION (ASTM D 1056-98) Oven-aged 7 days @ 70° C Change from original C/D value, %	+0.5	+/- 30
*WATER ABSORPTION, % (ASTM D 1056-98)	1.6	< 5
*COMPRESSION SET (ASTM D 1056-98, SUFFIX B3) 22 hrs. @ 23° C, 50% deflection 24 hr. recovery, %	22.1	< 25
*FLAMMABILITY,,FMVSS302 Burn rate, (mm/min)	50	100 max

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COMPOUND: S04004-01

LINE CALL OUT: ASTM D1056 2A4 B2 C1 Z1 Z2 Z3 Z4 Z5
 Z1 = 100% EPDM
 Z2 = RoHS Compliant
 Z3 = IMDS Compliant
 Z4 = Non-nitrosamine
 Z5 = Compression Set (B1:22hrs@70C)

TYPE: EPDM Black Sponge for LCM or UHF/HA Cure

PROPERTY	RESULT	LIMITS
DENSITY, pcf	27.58	30 +/-3
COMPRESSION DEFLECTION, 25%, psi (ASTM D 1056-98)	16.69	13 - 17
WATER ABSORPTION, % (ASTM D 1056-98)	1.33%	5.00%
TENSILE ¹ , psi (ASTM D-412)	240	--
ELONGATION ¹ , % (ASTM D-412)	258%	--
COMPRESSION SET (ASTM D 1056-98, SUFFIX B2) 22 hrs. @ 23° C, 50% deflection, % Set		
24 hr. recovery	4.55%	
30 minute recovery	12.73%	25.0%
COMPRESSION SET (ASTM D 1056-98, SUFFIX Z5) 22 hrs. @ 70° C, 50% deflection, % Set		
24 hr. recovery	10.00%	--
30 minute recovery	21.52%	25.0%

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COMPOUND: S04004-03

LINE CALL OUT: ASTM D1056 2A4 B2 Z1 Z2 Z3 Z4

TYPE: Low Density Black EPDM Sponge for LCM Cure
 Z1 = RoHS Compliant
 Z2 = IMDS Compliant
 Z3 = Non-nitrosamine
 Z4 = FMVSS 302 Flammability

PROPERTY	RESULT	LIMITS
*DENSITY, pcf	21.0	20 ± 3
*COMPRESSION DEFLECTION, 25%, psi (ASTM D 1056-98)	15.2	13 - 17
*HEAT RESISTANCE: COMPRESSION DEFLECTION (ASTM D 1056-98) Oven-aged 7 days @ 70° C Change from original C/D value, %	+16.5	+/- 30
*WATER ABSORPTION, % (ASTM D 1056-98)	0.68	< 5
*COMPRESSION SET (ASTM D 1056-98, SUFFIX B2) 22 hrs. @ 23° C, 50% deflection 24 hr. recovery, %	16.7	< 25
*FLAMMABILITY, FMVSS302 Burn rate, (mm/min)	Self-Extinguish	100 max

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COMPOUND: D04055-22

LINE CALL OUT: ASTM D2000 M4 AA 510 A13 B13 B33 Z1 Z2
 ASTM D2000 M3 BA 510 B13 Z1 Z2
 Z1 = 100% EPDM
 Z2 = 55 Durometer

TYPE: 55 Durometer Black EPDM

PROPERTY	RESULT	LIMITS
Specific Gravity (g/cm ³)	1.155	Calc.
Tensile, psi ASTM D-412	1665	> 1450
Elongation, % ASTM D-412	610	> 400
Durometer, pts. ASTM D-2240	56	50 - 60
Heat Resistance: ASTM D-2000 (70hrs @ 70C)		
- Change in Hardness, pts.	+ 1	+ 10 max
- Change in Tensile, %	- 0.1	- 25 max
- Change in Elongation, %	- 11.6	- 25 max
Heat Resistance: ASTM D-2000 (70hrs @ 100C)		
- Change in Hardness, pts.	+ 5	± 15
- Change in Tensile, %	+ 3.4	± 30
- Change in Elongation, %	- 28.4	- 50 max
Compression Set, % ASTM D-395 (22 hrs @ 70C)	14.3	< 25

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