

5031 | Closed cell EPDM/CR/SBR blend foam in bun form

5031: a black, closed cell, $6 \pm 2 \text{ lb/ft}^3$ ($96 \pm 32 \text{ kg/m}^3$) density, general purpose, EPDM / Neoprene / SBR blended rubber product 5031, that meets all the physical property requirements of ASTM D 1056-14 2A1. Manufactured with non-staining oils and anti-oxidants. 5031 incorporates flame retardants, meets the requirements of FMVSS 302 at 2.5 mm (0.098") and higher and is listed with UL to UL 94 HF-1 (UL file# QMFZ3.E55798). Listed with UL to UL 50E (periodic and continuous compression), UL 48 and UL 508 (UL file# JMLU2.MH25062). Also available in gray (5931 - UL 50E / 48 / 508 listed but not UL 94 listed).

DATA SHEET:

Physical Properties	Unit	Test Method	Typical Result
Density	lb/ft ³	ASTM D 1056	4 - 8
	kg/m ³	ASTM D 1056	64 - 128
Hardness, Durometer Shore 00		ASTM D 2240	40 - 60
Compression Deflection 25%	psi	ASTM D 1056	2 - 5
	kPa	ASTM D 1056	13.8 - 34.5
Compression Set (Room temp)	%	ASTM D 1056	40 max
Tensile Strength	psi	ASTM D 412 (Die A)	75
	kPa	ASTM D 412 (Die A)	517
Tear Strength	lb/in	ASTM D 624 (Die C)	9.6
	kN/m	ASTM D 624 (Die C)	1.7
Elongation	%	ASTM D 412 (Die A)	125
Resilience	%	ASTM D 2632	35
Service Temperature			
Low	°F (°C)	ASTM D 1056	-40 [-40]
High Continuous	°F (°C)		200 [93.3]
High Intermittent	°F (°C)		250 [121.1]
Water Absorption			
Maximum weight change	%	ASTM D 1056	10
Fluid Immersion (7 days @ 23°C [73.4°F]) ASTM Ref. Fuel B, Weight Change	%	ASTM D 1056	Not Applicable
Accelerated Aging (7 days at 70°C [158°F])			
Flexibility (180° bend without cracking)			Pass
Appearance Change			None
Change in Compression Deflection	%	ASTM D 1056	± 30
Combustion Characteristics		Thicknesses	Comments
FMVSS-302		0.098" (2.5 mm) and higher	Pass
UL 94			
HF-1		0.059" (1.5 mm) and higher	Listed, UL file # QMFZ2.E55798

ASTM D 1056 designation: 2A1
 SAE J 18 APR2002 designation: 2A1
 ASTM D 6576: Type II, Grades A, B & C, Condition Soft
 Additionally UL Listed to: UL 48, UL 50E, and UL 508 (UL file# JMLU2.MH25062)

EPDM = (ethylene-propylene-diene-methylene)
 SBR = styrene-butadiene rubber
 Neoprene = polychloroprene (CR = chloroprene rubber)