



BDJN 200



CHEMICALLY CROSS-LINKED, FINE CLOSED CELL, EVA/LDPE FOAM IN BUN FORM



Armacell LLC (South Holland, IL Plant) manufactures a closed cell, 2 lb/ft³ (32 kg/m³) density, general purpose, EVA/LDPE fine cell foam product BDJN 200 in bun form, with a nominal 25% compression strength deflection value of 6 psi.

BDJN 200 is a chemically cross-linked polyolefin product that is available in a variety of colors and has been fully tested to the physical property test methods listed in ASTM D 3575.

BDJN 200 does not incorporate an added flame retardant but meets FMVSS-302 at thicknesses of 0.250" (1/4") (6.35 mm) and higher.



- Widely used general purpose EVA/LDPE blend, an industry standard
- ASTM D 3575 tested polyolefin, closed cell material
- Fine cell – manufactured in blocks (buns)
- BDJN 200H is UL listed to UL 94 HF-1



Engineered For Success.

Formulation Descriptions:

BDJN 200	Standard Formulation (EVA/LDPE Ethylene Vinyl Acetate/Low Density Polyethylene)
BDJN 200H	UL Listed 94 HF-1 Formulation (see note 3)
BDJN 200F	Flame Retardant version to pass FMVSS 302 at thicknesses less than 0.250" (6.35 mm) and UL 94 HBF

Bun Size Information:

Product	Bun Size (in)			Bun Size (mm)			Color
	W	L	T	W	L	T	
BDJN 200	60	72	4	1524	1829	102	Black*
BDJN 200	48	72	4	1219	1829	102	Black*

* Available in a variety of colors

Automotive and Industrial Specifications:

Source	Specification	Armcell (OleTex®) BDJN 200	Comments
ASTM	D 3575	Data available	Various test methods for polyolefin foams
Chrysler	MSAY 512A Type 1	Data available	Water and Dust Seals – LDPE
Chrysler	MSAY 518A	Data available	Water and Dust Seals – EVA
Chrysler	MSAY 561	Data available	Type 0
DIN	DIN 53428	Pass	Water Absorption
Federal	FMVSS-302	Meets at thicknesses of 0.250" (1/4") (6.35 mm) & higher	Flame resistance (horizontal burn rate). See note 2.
Ford	ESA M8G53	Data available	Gasket
Ford	WSK-M4D649-A	Data available	Gasket
Ford	WSK-M4D675-A	Data available	Gasket
GM	GM 6086-M	Data available	Seals
GM	GMP PE056 Type 1	Data available	Seals
GM	GMW 3205	Pass	Resistance to Odor - Both Code A and B (Wet and Dry Condition)
GM	GMW 3232	Pass	Flame resistance (horizontal burn rate). Similar to FMVSS 302
GM	GMW 3235	Pass	Fogging - Method B-Y1-T1, Gravimetric
GM	GMW 15063	MATSPC Type 3, 4	Request test report. On approved source list. See note 1.
GM	GMW 15634	Pass	VOC and SVOC Data available
ISO	ISO 844	Data available at various deformations	Compression Load Deflection
ISO	ISO 845	Data available	Density
ISO	ISO 1856-B	5.3% max (Typical)	Compression Set: Room temp, 15% - 0.5 hour recovery, 5% - 24 hour recovery
ISO	ISO 1926	214% (Typical)	Elongation
ISO	ISO 1926	55.5 psi [383 kPa] (Typical)	Tensile Strength
ISO	ISO 2796	Data available	Dimensional Stability at -40 °C and 90 °C
ISO	ISO 3386/1	Data available	Compression strength at 10%, 25% & 50%
Mercedes Benz	DBL 5455	Data available	
SAE	SAE J369	Meets at thicknesses of 0.250" (1/4") (6.35 mm) & higher	Flame resistance (horizontal burn rate). Similar to FMVSS 302. See note 2.
UL	UL 94 HF-1	BDJN 200H only: HF-1 listed at 1.5 mm (0.059") and higher	Flame resistance specification UL file # QMFZ2.E55798 Colors: Natural, gray and black only See note 3.

Note 1: For all GMW 15063 callouts, Armcell (OleTex®) certifies to "basic" requirements only. Request additional information for each product. Providing application (exterior, interior or under-hood) and part thickness is helpful.

Note 2: A number of horizontal burn tests can also be listed (GM 6090, BMW, Volvo, etc.). Request additional information.

Note 3: Flame retardant can be added to BDJN 200 to create BDJN 200H to achieve this result. For additional information, please contact the technical manager and refer to the UL Listing on next page.

Data Sheet:

Physical Properties	Unit	Test Method	Typical Result
Density	lb/ft ³	ASTM D 3575 – Suffix W	2.0
	kg/m ³	ASTM D 3575 – Suffix W	32
Tensile Strength	psi	ASTM D 3575 – Suffix T	47
	kPa	ASTM D 3575 – Suffix T	324
Elongation	%	ASTM D 3575 – Suffix T	240
Tear Resistance	lb/in	ASTM D 3575 – Suffix G	11
	kN/m	ASTM D 3575 – Suffix G	1.9
Compressive Deflection (25%)	psi	ASTM D 3575 – Suffix D	5.7
	kPa	ASTM D 3575 – Suffix D	39
Compression Set	%	ASTM D 3575 – Suffix B	20
Thermal Stability	% change	ASTM D 3575 – Suffix S	< 3
Working Temperature	°F		-65 to +210
	°C		-54 to 99
Flammability (1)	Burn Rate	FMVSS 302	Pass at 0.250" (1/4") (6.35 mm) & higher
Flammability		UL 94 HF-1 BDJN 200H only	UL 94 HF-1 listed at 1.5 mm (0.059") and higher

(1) Flammability – This item and any corresponding data refer to typical performance in the specific test indicated and should not be construed to imply this material's behavior in other fire conditions.

UL File Number for Armacell (OleTex®) BDJN 200H only**UL File Number: QMFZ2.E55798****Plastics – Component (UL 94)**

		Min.	H		RTI		H	D			
		Thk	Flame	W	A	Elec	Mech	V	4	C	
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I

Polyethylene (PE)/Ethylene Vinyl Acetate (EVA), furnished as rolls or sheets.

BKJN 200H (da)	NC, GY, BK	1.5	HF-1	-	-	50	-	50	-	-	-
		13.6	HF-1	-	-	50	-	50			

(da) = Density range 0.0243-0.0374

UL Yellow Card Listing Verification On-line

- To obtain verification on-line:
1. www.ul.com - THEN
 2. Click on "On-Line Certifications Directory" in gray area at bottom of web page THEN
 3. Click on "Company Name" in the general search area - THEN
 4. Type in "Armacell" - & click "SEARCH"
 5. 9 (Nine) Armacell file numbers come up (2 for Armacell Germany, 1 for Armacell Middle East)
 6. Click on QMFZ2.E55798 for Armacell (Ensolite®) & (Monarch®) products [Flame / UL94]
 7. Click on JMLU2.MH25062 for Armacell (Monarch®) products listed to JMLU2 [Gaskets & Seals]
 8. Click on JMST2.MH10189 or JMST2.MH30018 for Armacell (Ensolite®) and or (Monarch®) products listed to JMST2 [Gasket Materials]
 9. Click on OPET2.MQ1977 for Armacell (ArmaSport®) products listed to Lifesaving Equipment, Marine - Component

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