



BKJN 200



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



Armacell LLC (South Holland, IL Plant) manufactures a closed cell, 2 lb/ft<sup>3</sup> (32 kg/m<sup>3</sup>) density, general purpose, LDPE fine cell foam product BKJN 200 in bun form, with a nominal 25% compression strength deflection value of 8 psi.

BKJN 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.

BKJN 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 closed cell LDPE
- ASTM D 3575 tested polyolefin, closed cell material
- Fine cell – manufactured in blocks (buns)



Engineered For Success.

**Formulation Descriptions:**

BKJN 200	Standard Formulation (LDPE Low Density Polyethylene)
BKJN 200H	UL Listed 94 HF-1 Formulation (see note 3)
BKJN 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	
BKJN 200	60	72	4	1524	1829	102	Black*
BKJN 200	48	72	4	1219	1829	102	Black*

\* Available in a variety of colors

**Automotive and Industrial Specifications:**

Source	Specification	Armcell (OleTex®) BKJN 200	Comments
ASTM	C 236	Data available	Thermal Conductance
ASTM	D 624	Data available	Tear Strength
ASTM	D 1056	Data available	Various test methods for polyolefin foams
ASTM	D 3575	Data available	Compression Set
ASTM	D 3575	Data available	Compression Force, Deflection at various values
ASTM	D 3575	Data available	Dimensional Stability
ASTM	D 3575	Data available	Elongation
ASTM	D 3575	Data available	Tensile Strength
ASTM	D 3575	Data available	Thermal Stability
ASTM	D 3575	Data available	Various test methods for polyolefin foams
ASTM	D 3575 Para 5.1	Data available	Water Absorption
ASTM	D 3575 Para 5.2	Data available	Shrinkage
ASTM	D 3575 Para 5.3	Data available	Cold Flexibility
ASTM	D 3575 Para 5.4	Data available	Odor
Chrysler	MSAY 512A Type 1	Data available	Water and Dust Seals - LDPE
Chrysler	MSAY 518A	Data available	Water and Dust Seals - EVA
Chrysler	MSAY 551	Data available	Water and Dust Seals - LDPE
Chrysler	MSAY 561	Data available	Type 0
Delphi	Delphi SD2-405	Data available	HVAC Evaporator Core Seal
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
GM	GM 6075-M Type 1	Data available	Seals
GM	GMP PE056 Type 1	Data available	GM Worldwide specification for LDPE
GM	GMW 15063	Data available	BKJN 200F passes for this GM Material Spec. See note 1.
ISO	ISO 3795	Data available	Flammability
UL	UL 94 HF-1	HF-1 listed at 1.7 mm (0.066") and higher BKJN 200H only	Flame resistance specification UL file # QMFZ2.E55798 Colors: Natural, gray and black only See note 3.
Volkswagen	VW 50180	Data available	Emission Behavior

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 BKJN 200 to create BKJN 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 <sup>3</sup>	ASTM D 3575 – Suffix W	2
	kg/m <sup>3</sup>	ASTM D 3575 – Suffix W	32
Tensile Strength	psi	ASTM D 3575 – Suffix T	42
	kPa	ASTM D 3575 – Suffix T	290
Elongation	%	ASTM D 3575 – Suffix T	125
Tear Resistance	lb/in	ASTM D 3575 – Suffix G	10
	kN/m	ASTM D 3575 – Suffix G	1.75
Compressive Deflection [25%]	psi	ASTM D 3575 – Suffix D	8.2
	kPa	ASTM D 3575 – Suffix D	56
Compression Set	%	ASTM D 3575 – Suffix B	16
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] and higher
Flammability		UL 94 HF-1 BKJN 200H only	UL 94 HF-1 listed at 1.7 mm [0.066"] 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®) BKJN 200H only****UL File Number: QMFZ2.E55798****Plastics – Component (UL 94)**

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

**Polyethylene (PE), furnished as rolls or sheets.**

BKJN 200H (da)	NC, GY, BK	1.7	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 (Ensolute®) & (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 (Ensolute®) 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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