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# EnsoLite® IG1

Closed cell PVC/NBR/CR foam in continuous rolls / sheets form

// ASTM D 1056 2A1/2C1/2B1
// Manufactured in continuous rolls / sheets
// Oil and fuel resistant
// UL Listed: UL94 HF-1, V-0 & 5VA

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## ENSOLITE IG1 | Closed cell PVC/NBR/CR foam in continuous rolls / sheets form

**EnsoLite IG1:** Armacell (Conover, NC Plant) manufactures a black, continuous, closed cell, 4.0 - 6.0 lb/ft³ (64 - 96 kg/m³) density, PVC/NBR/CR rubber product IG1, that meets the requirements of ASTM D 1056 2A1/2C1/2B1. IG1 has excellent resistance to oil and fuel. IG1 meets the horizontal burn / flame requirements of FMVSS 302 at 2.39 mm (0.094") and higher. IG1 is listed to UL94 HF-1 at 1.5 mm (0.059") and higher and UL94 V-0 & 5VA at 6.2 mm (0.244") and higher (UL File # QMFZ2.E55798).

### TECHNICAL DATA SHEET | ROLLS/SHEETS (effective 31MAY22)

**POLYMER: NBR/PVC/CR**

| Physical Property | | Test Method | Unit | Value |
|---|---|---|---|---|
| ASTM D 1056 Designation | | – | – | 2A1/2C1/2B1 |
| Cell Structure | | – | – | Closed |
| Color | | – | – | Black |
| Compression Deflection 25% | | ASTM D 1056 | psi<br>kPa | 2 - 5<br>13.8 - 34.5 |
| Compression Deflection 25%, after Heat Aging | | ASTM D 1056 | % | ± 30 |
| Compression Set (Room temp) | | ASTM D 1056 | % | 25 max |
| Density | | ASTM D 1056 | lb/ft³<br>kg/m³ | 4 - 6<br>64.1 - 96.1 |
| Elongation | | ASTM D 412 (Die A) | % | 75 min |
| Flammability | | FMVSS 302 | in<br>mm | 0.094 and higher<br>2.388 and higher |
| Fluid Immersion | | ASTM D 1056 | % | 100 max |
| Hardness, Durometer Shore 00 | | ASTM D 2240 | – | 30 - 50 |
| Service Temperature | Low | ASTM D 1056 | °F<br>°C | -40<br>-40 |
| | High Intermittent | _ | °F<br>°C | 200<br>93.3 |
| Tear Strength | | ASTM D 624 (Die C) | lb/in<br>kN/m | 9 min<br>1.58 min |
| Tensile Strength | | ASTM D 412 (Die A) | psi<br>kPa | 50 min<br>345 min |
| Water Absorption | | ASTM D 1056 | % | 5 max |

UL Listed to: UL94 (Flame) HF1 (UL file# QMFZ2.E55798) at 1.5 mm minimum thickness
UL Listed to: UL94 (Flame) V-0 (UL file# QMFZ2.E55798) at 6.2 mm minimum thickness
UL Listed to: UL94 (Flame) 5VA (UL file# QMFZ2.E55798) at 6.2 mm minimum thickness


EnsoLite IG1 | DataSheet | 062022 | NA | EN-A

# ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,200 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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