



AZCARB BR Bullet Resistant Grade Polycarbonate Sheet

AZCARB BR is a family of ballistic rated laminated sheet products from Level 1 through Level 6. Unlike glass-clad products, this laminate resists spalling and white-out after repeated high force impacts, an advantage in maintaining visibility of a threat during an attack. All AZCARB BR polycarbonate sheets are produced with 100% virgin Lexan resin on world class extrusion equipment. All exterior surfaces have a proprietary thermal cured siloxane coating. This hardcoat facilitates cleaning and resists marring, chemical attack, and graffiti. Applications include jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing centers and those applications to help prevent smash & grab.

- Available in BR 0.750", 1.00" & MS 1.25"
- UL752 Ballistic Rated Levels 1, 2, 3 & 6
- Won't spider web or white-out resulting in a clear line of site under attack
- Optically clear & virtually unbreakable
- Available in max sheet size 80" x 128"
- Reduced weight: Approximately 50% lighter than glass laminate of the same thickness
- No spall - providing an extra level of protection
- Fabricated much easier than Glass Clad PC
- Hard coat resists abrasion, chemical & graffiti attack
- Limited Ten (10) year warranty



AZCARB BR BULLET RESISTANT GRADE Polycarbonate Sheet TYPICAL STANDARD

PROPERTIES¹

PROPERTY	BR750	BR1000	BR 1250	MS 1250
Gauge/Tolerance	0.780 in +/- 10%	1.05 in +/- 5%	1.30 in +/- 5%	1.3 in +/- 5%
Weight	5.1 lbs / sq ft	6.5 lbs / sq ft	8.1 lbs / sq ft	8.1 lbs. / sq ft
Shading Coefficient	0.89	0.85	0.81	0.98
U-Value	0.65	0.60	0.51	0.56
Light Transmission	88%	72%	72%	78%

¹Values reported are averages and should not be used for specification purposes.

PRODUCT PERFORMANCE RATINGS

AZCARB BR750	AZCARB BR1000	AZCARB BR1250	MS1250
UL 752 Level 1	UL752 Level 2	UL752 Level 3	UL752 Level 6
9mm Ballistics	.357 Ballistics	.44 Magnum Ballistics	Multi Shot 9mm Uzi

PRODUCT SHEET CONSTRUCTION

AZCARB BR750	AZCARB BR1000	AZCARB BR1250	AZCARB MS1250
0.118" AZCARB AR1	0.118" AZCARB AR1	0.118" AZCARB AR1	0.118" AZCARB AR1
0.025 Aliphatic TPU	0.025 Aliphatic TPU	0.025 Aliphatic TPU	0.025 Aliphatic TPU
0.500 Cell Cast Acrylic	0.375" AZCARB OG	0.500" AZCARB OG	1" Cell Cast Acrylic
0.025 Aliphatic TPU	0.025 Aliphatic TPU	0.025 Aliphatic TPU	0.025 Aliphatic TPU
.0118" AZCARB AR1	0.375" AZCARB AR1	0.500' AZCARB OG	0.118" AZCARB AR1
	0.025 Aliphatic TPU	0.250 Aliphatic TPU	
	0.118" AZCARB AR1	0.118" AZCARB AR1	

AZCARB BR 1250 OBSERVATIONS - LEVEL THREE

BULLET VELOCITIES	FIRST	SECOND	THIRD
Single Shot	1428	-	-
2 Shot	1420	1417	-
3 Shot (Room Temperature)	1433	1404	1416
3 Shot (High Temperature)	1465	1410	1403
3 Shot (Low Temperature)	1421	1460	1429

AZCARB MS 1250 OBSERVATIONS - LEVEL SIX

SHOTS	BULLET VELOCITIES	PENETRATION/SPALLING
1	1537	No
2	1505	No
3	1496	No
4	1511	No
5	1970	No

AZCARB BR Polycarbonate Sheet is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives. The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, AZPolymers expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

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