

## **COGT.GuideInfo Glazing Material**

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### **[Bullet-resisting Materials] Glazing Material**

#### **Guide Information**

Bullet-resisting glazing material is intended to be used indoors and out of doors in bullet-resisting enclosures, armored vehicles, and teller's fixtures. Unless otherwise specified, the bullet-resisting glazing material is suitable for indoor and outdoor service.

Bullet-resisting glazing material may be a laminated assembly of glass and plastic binder or a combination of glass and plastic or plastic alone bonded together or monolithic plastic.

The basic standard used to investigate products in this category is UL 752, "Bullet Resisting Equipment" .

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and one of the following product names as appropriate: "Bullet-Resisting Glass" , "Bullet-Resistant Glass" , "Bullet-Resisting Glazing Material" or "Bullet-Resistant Glazing Material" . Also includes the appropriate rating of: "Level 1" , "Level 2" , "Level 3" "Level 4" , "Level 5" , "Level 6" , "Level 7" , or "Level 8" .

For materials that qualify for supplementary shotgun rating, the suffix "-SG" is included in the level marking.

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## **Glazing Material**

### **[Guide Information](#)**

**SHEFFIELD PLASTICS INC**  
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SHEFFIELD, MA 01257 USA

BP6864

**Level 1**, Model Hygard BR-750 or MAKROLON HYGARD BR-750.

**Level 2**, Model Hygard BR-1000 or MAKROLON HYGARD BR-1000.

**Level 3**, Model Hygard BR-1250 or MAKROLON HYGARD BR-1250.

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## Bullet-resisting Materials

### Guide Information for Security Equipment

This category covers bullet resistant material and equipment intended to be used in protective barriers to provide resistance to gunfire. The material and equipment has been investigated under the Standard for Bullet Resisting Equipment, UL 752. The following ratings and conditions apply.

<b>Rating</b>	<b>Test Ammunition</b>	<b>Nom Bullet Mass Grain (g)</b>	<b>Min Test Bullet Velocity Ft/s (m/s)</b>	<b>No. of Shots</b>
Level 1	9 mm FMJ	124 (8.0)	1175 (358)	3
	Lead Core			
Level 2	.357 Magnum	158 (10.2)	1250 (381)	3
	Lead JSP			
Level 3	.44 Magnum	240 (15.6)	1350 (411)	3
	Lead SWC/GC			
Level 4	.30 Caliber	180 (11.7)	2540 (774)	1
	Rifle Lead			
	Core SP			
Level 5	7.62 mm Rifle	150 (9.7)	2750 (838)	1
	Lead Core FMJ			
	Military Ball			
Level 6	9 mm FMJ	124 (8.0)	1400 (427)	5
	Lead Core			
Level 7	5.56 mm Rifle	55 (3.56)	3080 (939)	5
	Lead Core FMJ			

Level 8	7.62 mm Rifle	150 (9.7)	2750 (838)	5
	Lead Core FMJ			
	Military Ball			
Supplementary	12 Gauge Rifled	437 (28.3)	1585 (483)	3
Shotgun	Lead Slug			
	12 Gauge 00	650 (42)	1200 (366)	3
	Lead Buck Shot			
	(12 Pellets)			

**FMJ — Full Metal (Copper) Jacket**

**JSP — Jacketed (Copper) Soft Point**

**SWC/GC — Semi-Wadcutter/Gas Checked**

**SP — Soft Point (with Copper Jacket)**

Test velocities are not less than the minimum specified, and do not exceed the minimum rated velocity by more than 10 percent. Material and equipment tested for supplementary shotgun are tested with both test ammunition and may be marked with the suffix "-SG."

Bullet resisting equipment used to pass material between persons are tested with a 20 gauge shotgun firing No. 7-1/2 or 6 lead shot fired at the locations most likely to allow passage of the pellets through the assembly.

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