

MC504BR

TECHNICAL DATA BULLETIN

GRADE: MC504BR

NEMA GRADE: --

U. L. LISTED: Y

DESCRIPTION: MC504BR is a member of the *ShotBlocker*® family of products. MC504BR bullet resistant panels can be fabricated in the field to produce and/or reinforce the ability of a structure to withstand attack from a variety of projectiles. MC504BR panels are Underwriters Laboratories Listed and tested from Level 1 through Level 5. *ShotBlocker* panels are a Class 1-A fire/smoke-rated building material per ASTM E84, and certified to NIJ-Std-0108.01 – Type II, Type IIA, Type III and Type IIIA.

THICKNESS TESTED: 0.062", 0.125" & 0.500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity (0.062")	-	2.18
Rockwell Hardness (0.500")	M Scale	110
Moisture Absorption (0.500") Condition D _i -24/23	%	1.40
Flexural Strength (0.500") Condition A LW / CW	psi	23,200 / 17,200
Tensile Strength (0.500") Condition A LW / CW	psi	63,000 / 39,000
Izod Impact Strength (0.500") Condition E-48/50 LW / CW	ft-lb/in notched	15.0 / 15.0
Bonding Strength (0.500) Condition A	lb	400
Compressive Strength (0.250") Condition A Flatwise ¹ / Edgewise	psi	65,000 / 39,000

¹ Flatwise – the force is applied perpendicular to the laminations, and Edgewise it is applied parallel to the laminations.

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Flammability Rating - U. L. 94 (0.062")	Class	V-0

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

To assure the material's performance is adequate for a specific application; customers should verify, independent of Norplex-Micarta, performance characteristics of interest.

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if information is most current.

Specification writers: Contact Norplex-Micarta for specification values before submission.