

DIAMONITE TECHNICAL DATA
Solid Surface Material
Comparative Physical Data Solid Surface Cast Panels

Test	Test Method	Diamonite Solid	Diamonite Granite
Specific Gravity	ASTM D792	1.7	1.7
Hardness, Barcol	ASTM D2583	59.6	58
Tensile Strength (PSI)	ASTM D638	4,637	4,898
Tensile Modulus (X 106PSI)	ASTM D638	1.54	1.58
Elongation (%)	ASTM D638	.32	.33
Gloss NEMA	LD3	4.0	4.0
Light Fastness (after 200 hrs.)	ASTM D2565	no change	no change
Abrasion Resistance@	ASTM C501	.0046"	.0038"
Water Absorption (wt. %/24 hrs.)	ASTM D570	.020	.025
Impact Izod (ft.lb./in.)	ASTM D256	.22	.30
Thermal Expansion (X 10 ⁻⁵ in./in./°F)	ASTM D696	2.53	2.41
Flame Rating	ASTME 84	8.5	8.5
Heat Resistance (sec.)	NEMA LD3	Pass	Pass
Boiling Water Resist.	NEMA LD3	Pass	Pass
Stain Resistance	ANSI Z 124.6	Pass	Pass
Chemical Resistance	ANSI Z 124.6	Pass	Pass
Smoke Generation	ASTM E 84	87.5	87.5
Fire Rating	UL 723	Class A	Class A
Taste and Odor	NSF 51-1978	Pass	Pass
Approximate Weight (wt. per sq. ft., 3/4", lbs.)		7.5	7.5
(wt. per sq. ft., 1/2", lbs.)		5.0	5.0
(wt. per sq. ft., 1/4", lbs.)		2.5	2.5

The information and data given in this bulletin are based on tests which are considered to be reliable and accurate. However, because of environmental conditions beyond AGCO's control, the user assumes all liability for determining whether Diamonite is suitable for a particular application.