

1. Chemical Composition

Material Name	Remark
MMA (Methyl Methacrylate)	Resin
PMMA (Polymethyl Methacrylate)	Resin
AL (OH) ₃ – Alumina Trihydrate	Filler
UV Aborbers, Cross Linking Agents, Stabilisers, Curing Agents, Etc.	Additives

2. Early Fire Hazard indices*

Indices	Results	Range
Ignitability Index	9	0~20
Spread of Flame Index	0	0~10
Heat Evolved Index	1	0~10
Smoke Density Index	0	0~10

** ASTM E-84-01

** Note: Test results may vary due to color and particulate size. However, result changes will only be minor.

- 1). Class A according to the national Fire Protection Association, ANSI/NFPA NO. 101, "Life Safety Code", 1994 Edition
Class A according to the Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Section 801-07
- 2). Class MI according to the N ° RA01-290B
- 3). Class BI according to the DIN 4102-01 (May 1998)

3. Property Specifications

Properties	Unit	Result	Test Standard
Specific Gravity	g/cm ³	1.72	
Tensile Strength	MPa	40.2	ASTM D 638
Tensile Modulus	GPa	10.0	ASTM D 638
Elongation	% min	0.38	ASTM D 638
Flexural Strength	MPa	56.7	ASTM D 790
Flexural Modulus	GPa	9.11	ASTM D 790
Hardness (HRM)		84	ASTM D 785
Thermal Expansion	Mm/m c	3.04x10 ⁻⁵	ASTM D 696
Gloss (60° Gardner)		5 ~ 20	ANSI Z124
Color Stability		No change	NEMA LD3
Wear & Cleanability		Passes	ANSI Z124
Boiling Water Surface Resistance		No change	NEMA LD3
High Temperature Resistance		No change	NEMA LD3
Stain Resistance		Passes	NEMA LD3
Impact Resistance		No fracture	NEMA LD3
Water Absorption Weight	% max	0.03	
Bacteria		No attack	KS M ISO 22196:2011
Wetherability		No change	KS M ISO 4892-2
NSF 51	Listed	All Colors	NSF
Slip resistance(BPT)	BPN	55	KS F 2375:2016

** Above data represent general properties of products and shall not be regarded as legal basis
 ** Above data can be changed without preliminary notice by reason of request from customer and improvement of product quality.