EGR DECOR

Zenolite®

Technical Data Sheet

Decorative Acrylic Panels For Interior Spaces

September 2020

Zenolite Panel Properties

Zenolite panels unique properties offer designers the opportunity to create exciting and highly functional spaces.
The Zenolite colour palette has been carefully crafted to offer both grounded and inspirational options for the designer. The colours will work in harmoney or contrast with many natural and industrial finishes.
Zenolite is suitable for a multitude of applications – from kitchen splashbacks and feature walls, to entire hotel foyers. It can also bend to form gentle curves.

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ZENOLITE PANEL PROPERTIES	TEST METHOD	RESULT
General Properties		
Specific Gravity	ASTM D-792	1.19
Water Absorption	ASTM D-570	<0.5 %
Gloss	AS/NZS 1580.602	>90 %
Mechanical Properties		
Tensile Strength, Max	ASTM D-638	70 MPa (10,000 psi)
Elongation at Break	ASTM D-638	4 %
Tensile Modulus	ASTM D-638	3,000 MPa (435,000 psi)
Flexural Strength	ASTM D-790	100 MPa (15,000 psi)
Flexural Modulus	ASTM D-790	3,000 MPa (435,000 psi)
Izod Impact Strength, Milled Notch	ASTM D-256	15 J/m (0.28 ft·lb/in)
Pencil Hardness	ASTM D-3363	4H
Erichsen Hardness*	ISO 4586-2 (DIN EN 438-2)	≥ 0.9N
Thermal Properties		
HDT, 264 psi, 1.82 MPa	ASTM D-648	96 °C (203 °F)
CTE, -30°C to 30°C	ASTM D-696	7 x 10^{-5} mm/(mm.°C) (4 x 10^{-5} in/(in.°F))
Continuous Service Temperature		77 °C (170 °F)
Max temperature, Short Term		85 °C (185 °F)
Degradation Temperature		>275 °C (>530 °F)
Fire Behaviour		
Flame Spread Index	ASTM E84	130*
Australia BCA 2006	AS/NZS 3837:1998 AS/NZS 1530.3	Group 4 Smoke and over spread = 4 Flame spread = 7
U.K.	BS476	Rating 4

ZENOLITE PANEL PROPERTIES	TEST METHOD	RESULT
U.S.A.	UL94	HB
Europe	EN 13501	Class E

*Internally tested by EGR

Chemical Resistance

Zenolite is an inert and very stable polymer and is resistant to the following substances: Kerosene, Mineral Turpentine, lemon juice, Vinegar, Coffee, Soaps and most mild household cleaners.
Zenolite should not be exposed to the following substances: Acetone, Methylated Spirits, Glass Cleaners, Abrasive Cleaners, aggressive solvents such as MEK or Toluene.

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