

High gloss Zenolite wall panels bring life, colour and style to any vertical surface



Physical Properties - Zenolite

Physical Properties - Zenolite - HC

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GENERAL PROPERTIES	Test Method	Result	
Specific Gravity	ASTM D-792	1.19	
Water Absorption	ASTM D-570	<0.5%	
Gloss	AS/NZS1580.602	>80%	
MECHANICAL PROPERTIES	Test Method	Result	
Tensile Strength, Max.	ASTM D-638	70MPa	(10,000psi)
Elongation at Break	ASTM D-638	4%	
Tensile Modulus	ASTM D-638	3,000MPa	(435,000psi)
Flexural Strength	ASTM D-790	100MPa	(15,000psi)
Flexural Modulus	ASTM D-790	3000MPa	(435,000psi)
Izod Impact Strength, Milled Notch	ASTM D-256	15J/m	(0.28 ft-lb/in)
Abrasion (Taber, 10 rots. CS10F 500g)	ASTM D-1044	<10% Gloss	
Pencil Hardness	ASTM D-3363	6H	
THERMAL PROPERTIES	Test Method	Result	
HDT, 264psi, 1.82MPa	ASTM D-648	96°C	203°F
CTE, -30°C to 30°C	ASTM D-696	7 x10 <sup>-5</sup> mm/(mm.°C) (4 x10 <sup>-5</sup> in/(in.°F))	
Continuous Service Temperature		77°C	(170°F)
Max Temperature, Short Term		95°C	(202°F)
Degradation Temperature		>275°C	(>530°F)
FIRE BEHAVIOUR	Test Method	Result	
Flame Spread Index	ASTM E-84	130*	
Australia BCA	AS/NZS 13837:1998	Rating 4	
U.K.	BS476	Rating 4	
U.S.A.	UL94	HB	
Europe	EN 13501	Class E	
CHEMICAL RESISTANCE	Test Method	Result	
Kerosene	No Effect	Shampoo - Pantene	No Effect
Mineral Turpentine	No Effect	Mouthwash - Listerine	No Effect
Hot Sodium Hydroxide	No Effect	Toothpaste - Macleans	No Effect
General Cleaner - Easy Off Bam	No Effect	10% Citric Acid	No Effect
General Cleaner - Spray 'n' Wipe	No Effect	Hot Tomatoe Sauce	No Effect
General Cleaner - Cloudy Ammonia	No Effect	Lemon Juice	No Effect
Bleach - White King	No Effect	Hot Coffee	No Effect
Bleach - Domestos	No Effect	Vinegar	No Effect
Glass Cleaner - Windex	No Effect	Cleaning Cream - Jif	No Effect
Fragrance Spray - Air Wick	No Effect	Isopropyl Alcohol	No Effect
Shower Gel - Health Basics	No Effect	Acetone	Mild Staining

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Izod Impact Strength, Milled Notch	ASTM D-256	15J/m	(0.28 ft-lb/in)
Pencil Hardness	ASTM D-3363	4H	
THERMAL PROPERTIES	Test Method	Result	
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CTE, -30°C to 30°C	ASTM D-696	7 x10 <sup>-5</sup> mm/(mm.°C)	(4 x10 <sup>-5</sup> in/(in.°F))
Continuous Service Temperature		77°C	(170°F)
Max Temperature, Short Term		95°C	(202°F)
Degradation Temperature		>275°C	(>530°F)
FIRE BEHAVIOUR	Test Method	Result	
Flame Spread Index	ASTM E-84	Class 2	
Australia BCA	AS/NZS 13837:1998	Rating 4	
U.K.	BS476	Class 3	
U.S.A.	UL94	HB	
Europe	EN 13501	Class E	
CHEMICAL RESISTANCE			
Kerosene	No Effect	Shampoo - Pantene	No Effect
Mineral Turpentine	No Effect	Mouthwash - Listerine	No Effect
Hot Sodium Hydroxide	No Effect	Toothpaste - Macleans	No Effect
General Cleaner - Easy Off Bam	No Effect	10% Citric Acid	No Effect
General Cleaner - Spray 'n' Wipe	No Effect	Hot Tomatoe Sauce	No Effect
General Cleaner - Cloudy Ammonia	No Effect	Lemon Juice	No Effect
Bleach - White King	No Effect	Hot Coffee	No Effect
Bleach - Domestos	No Effect	Vinegar	No Effect
Glass Cleaner - Windex	Moderate Effect	Cleaning Cream - Jif	Mild Effect
Methylated Spirits	Severe Effect	Acetone	Severe Damage
Fragrance Spray - Air Wick	No Effect	Isopropyl Alcohol	Severe Damage
Shower Gel - Health Basics	No Effect		

