

Architectural Glazing

Makrolon[®] 15 Polycarbonate Sheet offers long term weatherability and is backed by a 15 year performance warranty. This performance enhancement is derived from innovative coating technology. Makrolon 15 Polycarbonate Sheet offers significant improvement in application life cycle costs versus other glazing materials. It is offered in thicknesses from 0.236" - 0.500".

Applications

Schools, public buildings, transportation centers and in areas where high traffic and vandalism is prevalent.

Typical Properties*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	-	1.2
Light Transmission	ASTM D1003	%	86
Chemical Resistance	ASTM D1308	-	Pass
Taber Abrasion, 100 Cycles CS-10F Delta Haze	ASTM D1044	%	2
MECHANICAL			
Tensile Strength, Ultimate	ASTM D638	psi	9,500
Tensile Modulus	ASTM D638	psi	340,000
Flexural Strength	ASTM D790	psi	13,500
Izod Impact Strength, Notched @ 0.125"	ASTM D256	ft-lbs/in	16
Izod Impact Strength, Unnotched @ 0.125"	ASTM D256	ft-lbs/in	No Break
Instrumented Impact, 0.125"	ASTM D3763	ft-lbs	>46
THERMAL			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature, @ 264 psi	ASTM D648	°F	270
Heat Deflection Temperature, @ 66 psi	ASTM D648	°F	280
FLAMMABILITY			
Horizontal Burn, AEB	ASTM D635	in	<1
Ignition Temperature, Self	ASTM D1929	°F	1070
Ignition Temperature, Flash	ASTM D1929	°F	870

*Typical properties are for reference only

Chemical Resistance*

Chemical Tested	Resistance Time
Acetone	> 24 hrs
Ethylene Dichloride	> 24 hrs
Unleaded Gasoline	> 24 hrs
Hydrochloric Acid (10%)	> 24 hrs
Isopropyl Alcohol (IPA)	> 24 hrs
Kerosene	> 24 hrs
Methyl Alcohol	> 24 hrs
Methylene Chloride	> 24 hrs
Methyl Ethyl Ketone	> 24 hrs
Nitic Acid (100%)	>1 hr but < 24 hrs
Sodium Hydroxide (10%)	>1 hr but < 24 hrs
Sulfuric Acid (1%)	> 24 hrs
Toluene	> 24 hrs

* Tested in accordance to ASTM D1308

Regulatory Code Compliance and Certifications

ICC-ES Evalutaion report ESR-2728

Miami- Dade NOA #08-0926.15

Florida Building Code 2007

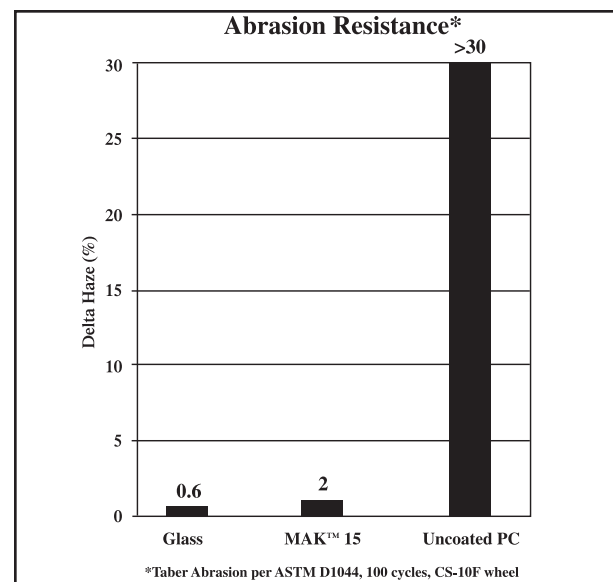
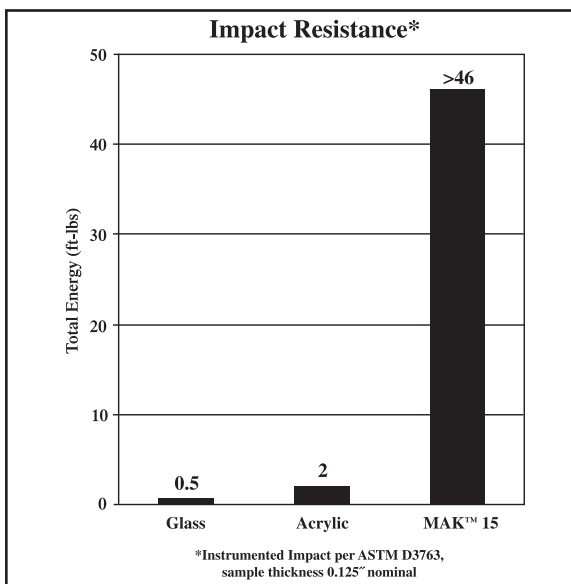
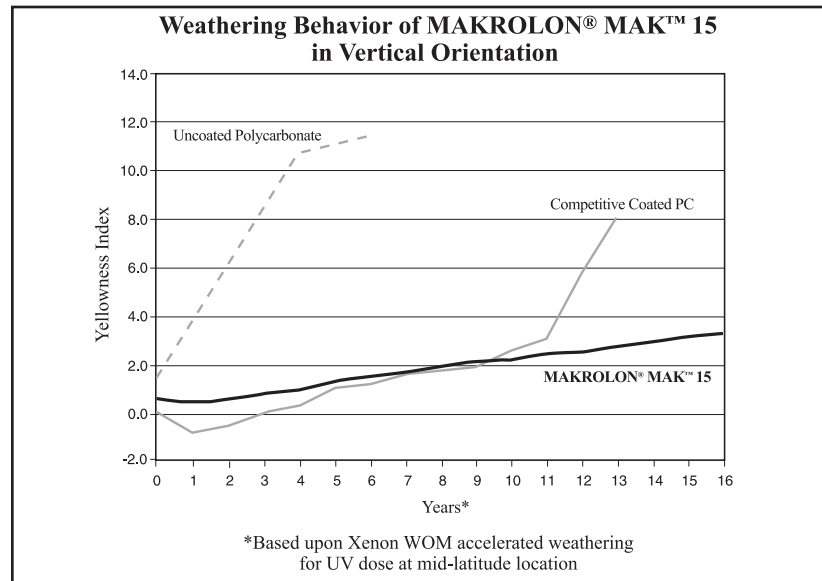
CPSC 16 CFR 1201, Category I and Category II: Safety Standard for Architectural Glazing Materials

ANZI Z97.1 - Safety Glazing Materials Used In Buidings - Safety Performance Specifications and Methods of Test

UL 972: Burglary Resistant Glazing Materials UL file BP2126

Product Data

Makrolon® 15 Sheet



Disclaimer

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.



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