

## MAKROLON<sup>®</sup> MAK<sup>™</sup> 15 Sheet

### Architectural Glazing

MAKROLON<sup>®</sup> MAK<sup>™</sup>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. MAK 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

Typical glazing applications include schools, public buildings, transportation centers and in areas where high traffic and vandalism is prevalent.

### Typical Properties\*

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
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
<b>MECHANICAL</b>			
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
<b>THERMAL</b>			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 <sup>-5</sup>
Heat Deflection Temperature, @ 264 psi	ASTM D648	°F	270
Heat Deflection Temperature, @ 66 psi	ASTM D648	°F	280
<b>FLAMMABILITY</b>			
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

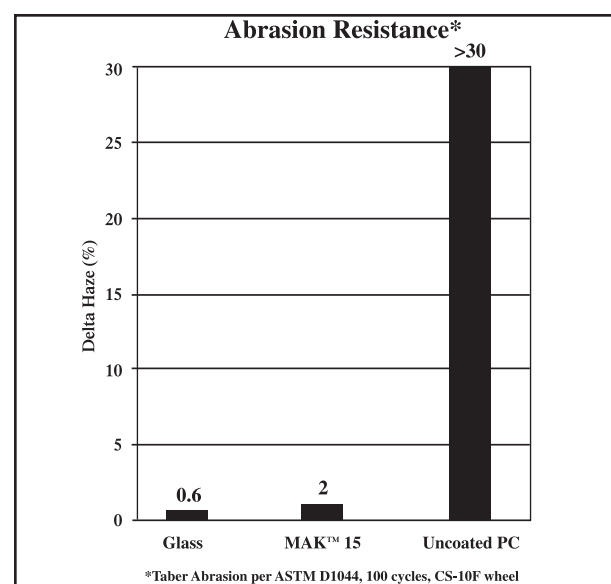
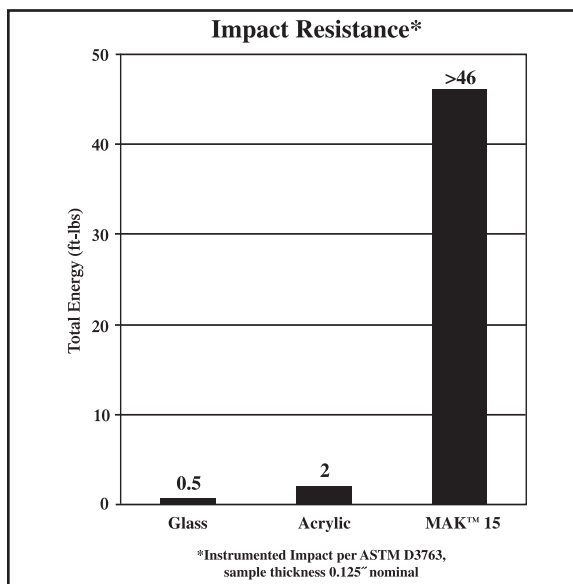
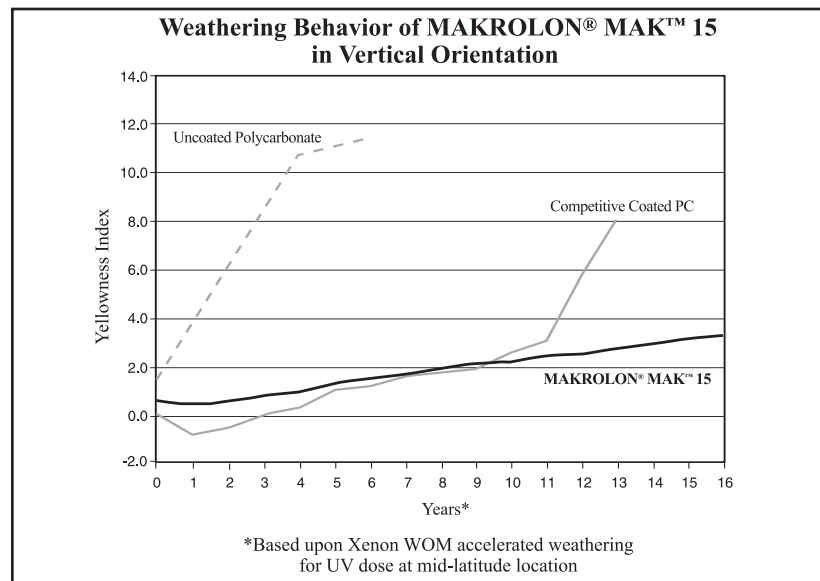
Florida Building Code 2007

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

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### Disclaimer

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