

Product Data Sheet Abrasion and UV Resistant Sheet

Monogal-AR, 2UV- resistant, hard coated polycarbonate substrate. Monogal-AR is designed to provide excellent UV and scratch resistance, so it can be used in exterior applications.

Typical Properties

Property	Test Method	Units	Values
Physical			
Specific Gravity	ASTM-D792	N/A	1.2
Light Transmission	ASTM-D1003	%	87
Taber Abrasion	ASTM-D570	%	.15
	ASTM-1044	%	<5
Mechanical			
Tensile Strength, Ultimate	ASTM-D638	psi	9,500
Tensile Strength, Yield	ASTM-D638	psi	9,000
Tensile Modulus	ASTM-D638	psi	340,000
Elongation	ASTM-S638	%	110
Flexural Strength	ASTM-D790	psi	13,500
Flexural Modulus	ASTM-D790	psi	345,000
Compressive Strength	ASTM-D695	psi	12,500
Izod Impact Strength	ASTM-D256	ft.lbs/in	16
Thermal			
Deflection Temperature @264 psi	ASTM-D648	F	270
Coefficient of Thermal Expansion	ASTM-D696	In/in/F	3.75 x 10 ⁻⁵
Coefficient of Thermal Conductivity	ASTM-C177	BTU.in/hr.ft ² .°F	1.35
Flammability			
Horizontal Burn	ASTM-D635	In	<1
UL 94 Rating of base substrate @ .060"	UL 94	N/A	V2
UL94 Rating of base substrate @ .236"	UL 94	N/A	V0
UV Stability			
Resistance to UV Exposure	ANSI-Z26.1	Pass/Fail	Pass