



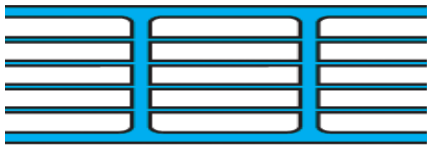
Makrolon® multi UV 6/16-20 sheet

Multiwall sheet

Makrolon® multi UV 6/16-20 polycarbonate sheet is a 16 mm thick product with a 6-wall structure for enhanced stiffness. Its outstanding thermal insulation, impact resistance, lightweight, and ease of installation provide a tough and versatile glazing, roofing, and cladding material. Makrolon multi UV sheet is available in clear and standard glazing tints. A ten (10) year Limited Product Warranty against breakage and weathering is available. The terms of the warranty are available upon request.

Applications

Industrial buildings, sports arenas, greenhouses, bus shelters, car ports, sunrooms, covered walkways, swimming pool covers, partition walls, facades, roofing, and skylights



Typical Properties*			
Property	Test Method	Units	Values
PHYSICAL			
Luminous Transmittance (D65)	DIN 5036		
Clear		%	59
White		%	49
Thickness		mm	16
Weight Factor		lbs/ft ²	0.573
Minimum Cold Bend Radius		inch	94
Sound Transmission	EN ISO 140 / 717	dB	20
Hail Impact	lab test**		Pass
Ball Impact	DIN 18032, Part 3	ball impact	Pass
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 ⁻⁵
Temperature Resistance, no load		°F	250
U-Value / R-Value	EN ISO 6946	BTU/hr-ft ² -°F	0.32 / 3.1
Direct Solar Transmission	EN410 / EN13363-2		
Clear			0.54
White			0.46
Total Solar Energy	EN410 / EN13363-2		
Clear		%	57
White		%	50
Solar Heat Gain Coefficient	calculated***		
Clear			0.57
White			0.50
Shading Coefficient	calculated****		
Clear			0.66
White			0.57
Thermal Conductivity	ISO 6946	BTU-in/hr-ft ² -°F	0.23
FLAMMABILITY			
Rate of Burn	ASTM D 635		CC1
Flame Spread and Smoke	ASTM E 84		Class A
Ignition Temperature	ASTM D 1929		
Self		°F	1043
Flash		°F	910

*Typical properties are not intended for specification purposes

**Hail impact test: 10 shots of a 0.79" diameter (0.16 oz) polyamide ball at 69 ft/s (0.74 ft lbs impact energy) - failure defined as more than 5 penetrations

***Solar Heat Gain Coefficient = Total Solar Energy/100

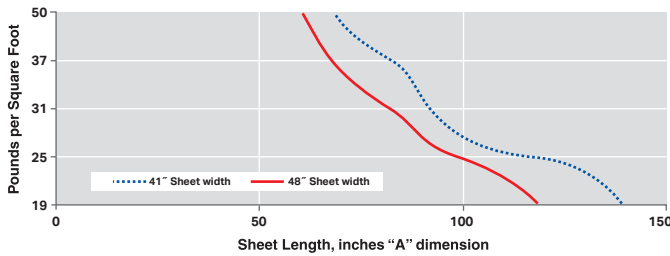
****Shading Coefficient = Solar Heat Gain Coefficient x 1.15



Makrolon® multi UV 6/16-20 sheet

Windload (uniformly applied loading) guidelines for specific multi UV sheet widths and their corresponding lengths as a function of load bearing in pounds per square foot are shown in the graph. Recommendations are based on a clamped framing method that supports all four sheet edges by an extrusion having sufficient rabbet depth for edge engagement and room for thermal expansion. Instructions on glazing multi UV sheet are outlined in the product installation guide.

Makrolon® multi UV 6/16-20 Sheet Windload Chart



Load	19 psf	25 psf	31 psf	37 psf	50 psf	Sheet Width
6/16-20	138	118	91	79	67	41"
Sheet Length, Inches	118	98	79	71	63	48"



119 Salisbury Road
 Sheffield, MA 01257
 Toll Free: 800.254.1707
 Fax: 800.457.3553
sfdinfo@covestro.com
sheets.covestro.com

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, information and recommendations 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 Covestro.

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.

With respect to health, safety and environment precautions, the relevant Material Safety Data Sheets (MSDS) and product labels must be observed prior to working with our products.