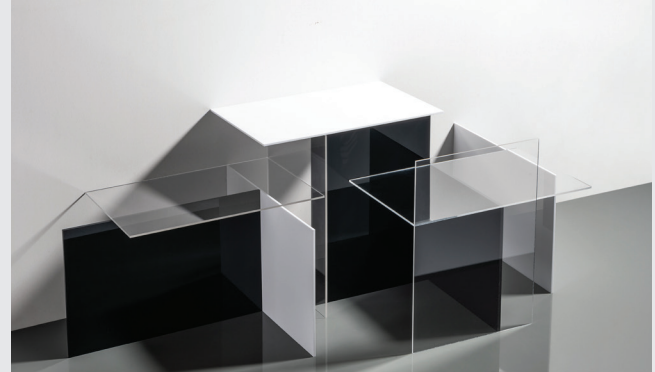
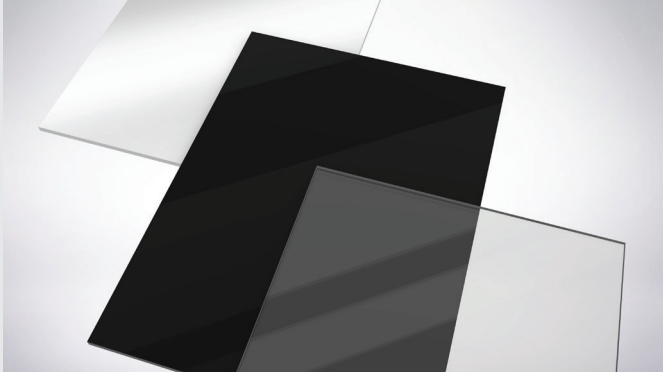


ACRYLITE® proTerra Extruded Sheet



Product

ACRYLITE® proTerra is a continuously manufactured acrylic (polymethyl methacrylate, PMMA) sheet made with up to 95% post-industrial recycled acrylic.

The sheet is offered in clear, black and white. The colored acrylic sheet contain a virgin cap layer on either side that provides a high-gloss finish.

Properties

ACRYLITE® proTerra features the following characteristics:

- Consists of up to 95% post-industrial recycled acrylic
- 100% recyclability
- Outstanding surface brilliance
- Excellent thickness tolerance
- Extremely high weather resistant
- Easy to fabricate
- High surface hardness
- Half the weight of glass and 20 times more break resistant

Applications

ACRYLITE® proTerra is the ideal choice where use of recycled content, outstanding thickness and ease of fabrication is required. These applications include:

- Exhibits
- Furniture or Interior Design
- POP and Retail Displays
- Lighting Applications

Product Specifications

Colors	Color Number/ Industry Number	Thickness	Width	Length
Colorless	OBO95			
Black	9M950/2025	.118" (3mm)	48"	96"
White	WM585/7328	.177" (4.5mm)		
White	WM575/2447	.220" (5.6mm)		
White	WM555/3015	.236" (6mm)		

Fabrication

ACRYLITE® proTerra can be fabricated using the same machining parameters and equipment that are recommended for use with ACRYLITE® acrylic sheet (refer to ACRYLITE® extruded fabrication briefs).

Standard Property Values

The table below shows typical values for .118" (3mm) thick ACRYLITE® proTerra sheet made with high recycled content. Some values will change with thickness.

Test	Method	Typical Values
TENSILE STRENGTH	ASTM D-638	10,000 psi
TENSILE ELONGATION @ Rupture	ASTM D-638	3.70%
TENSILE MODULUS	ASTM D-638	400,000 psi
FLEXURAL STRENGTH	ASTM D-790	16,700 psi
FLEXURAL MODULUS	ASTM D-790	480,000
ROCKWELL HARDNESS	ASTM D 785	M 93
SPECIFIC GRAVITY	ASTM D-792	1.19
THERMAL EXPANSION	ASTM D-696	0.00004 in/in-°F
WATER ABSORPTION (24 hr)	ASTM D-570	0.20%

* Not for specification purposes

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Röhm GmbH and its affiliates are a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

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