

OCTOART®

Specification Guidelines:

RESIDENTIAL APPLICATIONS:

OCTOART is an eco-fiber acrylic laminate incorporating Natural Plant Fibers such as Mulberry, Water Hyacinth, Bamboo and Tamarind Leaf and is manufactured to a commercial tolerance. The standard line of OCTOART has a one-sided laminate, which has a hard and durable surface. The hand-made textile of the fibers expresses an appeal that is soothing to touch and creates an attractive ambiance.

OCTOART is also available in 2-sided acrylic lamination

OCTOART sandwich format consists of Natural Plant Fibers between two sheets of acrylic, which may be utilized e.g. for shower doors. The edges of the sandwich format should be sealed after cutting with i.e. silicone.

Flammability Ratings for the Acrylic used in the manufacturing of OCTOART	
UL Listing	94 HB
ICBO	CC-2
ASTM E-84	<236” has a smoke development rate of less than 450 and a flame spread index less than 200.</=.177” Interior Finish
ASTM D635	< 2.5”/min burn rate. CC2 material

COMMERCIAL APPLICATIONS:

OCTOART polycarbonate is available for Industrial uses combined with a waterborne acrylic latex clear sealer. The end product offers a hard finish, which does not crack, or craze. The sealant used is non-flammable & environmentally friendly.

Flammability Ratings for the Polycarbonate used in the manufacturing of OCTOART	
UL Listing	94 V-2 Clear @ .060" / V0 = Clear @ .220"
ICBO/BOCA	CC-1
ASTM D1929	Flash Ignition Temperature @ 870 °F
ASTM D1929	Self Ignition Temperature @ 1070 °F
ASTM D635	Horizontal Burn, AEB at < 1"
CPSC (Consumer Product Safety Commission):	16CFR 1201 Categories I & II

OCTOART is also available in PET-G upon request.

WORKING/CUTTING instructions:

When working, cutting or drilling OCTOART, always wear protective equipment such as safety gloves and safety glasses. The fabrication and storage environments should be clean, well insulated & ventilated with proper lighting.

OCTOART can be cut by using a circular saw with either a special blade for Acrylic sheets or with a standard blade, which has a minimum of 80 teeth. It should be cut with the "acrylic" side down.

Note: Plastics such as acrylic, Pet-g & polycarbonate can expand and contract more or less to a difference in temperature. When using OCTOART as an insert or framed, an allowance of roughly 1/16" is recommended.

STORAGE & HANDLING:

- OCTOART is recommended to be stored in a dry environment free from direct sunlight, moisture and temperature extremes. Store it flat down or on it's side rather than horizontally as it might warp over time.
- OCTOART is usually shipped with a protective masking on the acrylic side to prevent damage and scratching during shipping and handling.

DRILLING instructions:

OCTOART can be drilled using ordinary high-speed steel drill bits, although slow helix angle jobber drill bits render the best finish while reducing cracking of material. Be careful when using taps or self-tapping screws; tapping creates notches that can result in stress cracks because the product is a notch-sensitive material, like most clear plastics. The use of rubber grommets is advised. Recommended drill speed is 350-1750 RPM:

Approx. Sheet Thickness	Drill Speed (R)
1/8"	1750
1/4"	1000-1500
1/2"	350-500

COLD BENDING:

OCTOART may be cold-bent with the minimum radius based upon the sheet thickness.

Approx. Sheet Thickness	Min. Radius (R)
1/8"	12.5"
3/16"	18.7"
1/4"	25.0"

CLEANING instructions:

OCTOART can be easily cleaned by use of warm water with mild detergents.

Do not use glass-cleaning products on the Acrylic Side of the OCTOART such as acetone, lacquer thinner or alkaline cleaners as it may damage the acrylic.

Repairing Damaged Surface Coats:

To avoid peeling of the surface coat, a minimum of 72 hours is typically required to allow for proper curing. It is advisable that sheets not be packaged until the curing process is complete, otherwise the sheets may stick together and result in damage to the surface coat.

In situations where goods need to be shipped immediately after production, Octopus will not accept any liability for any damage that occurs to the coating.

Simply applying a new coat to the affected area can solve peeling problems. The coating is available upon request from the manufacturer. Please contact our head office if this required.

Pet-G:

Flame Retardency, Heat Resistance & Scratch resistance: Pet-G falls in between Acrylic and Polycarbonate, so the Flame retardency is higher than the Acrylic but less than the Poly; same with the heat resistance.

The following is the technical data of the Pet-G:

Rockwell Hardness ASTM: D 785

The Pet-G meets all flammability requirements specified by Boca, and ICBO
Flame Spread and Smoke Density (ASTM E-84 and UL723):
Flame Spread Index: Less than 75
Smoke Density: less than 120 --> meets the requirements for interior
finish flame spread Class II

Note: A Class II material can be used in place of a Class I material when installed with an approved automatic fire suppression system.

Rate of Burning (ASTM D635): will burn less than 1 inch. It therefore meets the requirements for classification CC1 in a nominal thickness of 1.5 mm
UL flammability Classification: UL94 ICBO CC1

For additional information, contact Octopus Products Limited Toll Free at 1-877-628-6526