

Acrylic ONYX MATERIAL SAFETY DATA SHEET



FOR UNSATURATED POLYESTER RESIN PANEL

Section 1. – Material Identification

Product name : Panels marketed under, Onyx & Translucent Acrylic resin panels.

Appearance : Solid flat unsaturated polyester resin panels in translucent colors.

Section 2. – Composition

Panels are composed of cured unsaturated polyester resin, their contents fall within the ranges indicated :

Principal components : Polyethylene (CAS # : 9002-88-4)

Polyethelene Hexene Co-polymer

Additives

Section 3. – Hazards Identification

This material is non hazardous.

Fire hazards

Unsaturated polyester resin sheets are combustible.

Formaldehyde may be produced at extremely elevated temperatures.

Fire precautions should be observed.

Use the following extinguishing media : water spray, dry chemical or carbon dioxide.

Fabrication hazards

Dust generated during cutting and fabricating can be hazardous and may produce mechanical irritation to mucous membranes of the eyes, nose, throat and upper respiratory tract.

Wear eye protection and protective mask to avoid inhaling dust.

Overheating unsaturated polyester resin panels can produce fumes.

Use exhaust ventilation during fabrication.

If nausea, headache or dizziness occur, move to fresh air. Ensure working area is well ventilated, otherwise a fume/dust extractor or industrial vacuum is used.

Section 4. – First Aid Measures

Flush eyes with running water immediately if dust particles get into the eyes and seek medical assistance if irritation remains.

Section 5 - Special Protection

Wear work gloves to protect hands from any sharp edges.

Wear eye protection during handling and fabrication.

Dust generated during cutting and fabricating can be hazardous.

Wear respiratory protective mask to avoid inhaling dust.

Dust generated during cutting and machining can be irritating to skin.

Wear protective clothing if necessary to minimize exposure to the dust.

Section 6 – Storage and Handling

The material is combustible.

Store at ambient temperatures and away from sparks or heat sources such as open flames and heaters.

Section 7. - Toxicity

Unsaturated polyester resin sheets are solid sheets, and are not hazardous under normal conditions of storage, handling and installation.

This material is not expected to be irritating to the eyes or skin.

Cutting and machining can produce hazardous dust and vapour

Refer to Section 3 for additional information.

Section 8 – Physical and Chemical Properties.

Appearance : Solid resin sheet

Odor : None

Solubility : Not soluble in water

Melting Point : 135 deg C / 275 deg F

Density : 0.91 g/cm³ to 0.97 g/cm³

This material is considered stable under normal ambient, anticipated storage and handling conditions of temperature and pressure.

Flashpoint : 340 deg C / 644 deg F

Auto Ignition : 380 deg C / 716 deg F

Section 9 – Ecological and Transport Information

Saturated polyester resin panel material is not readily biodegradable.

Material is not expected to be harmful to aquatic organisms.

This material is not regulated as a hazardous or dangerous goods for transportation.