



Section 06065

Manufacturers of Plastic Materials

Part 1 GENERAL

1.1 SECTION INCLUDES

- A. Basic Wood and Plastic Materials and Methods
- B. Plastic Fabrication

1.2 RELATED SECTIONS

- A. Section 10150 – Lavatory Compartments
- B. Section 10500 – Lockers and Storage Cubbies
- C. Section 12350 – Laboratory Casework and Work Surfaces
- D. Section 10155 – Toilet Compartments
- E. Section 06410 – Custom Cabinets
- F. Section 06200 – Finish Carpentry

1.3 REFERENCES

- A. ASTM D1505 – Standard Test Method for Density of Plastics by the Density-Gradient Technique.
- B. ASTM D638 – Standard Test Method for Tensile Properties of Plastics.
- C. ASTM D790 – Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- D. ASTM D1822 – Standard Test Method for Tensile-Impact Energy to Break Plastics and Electrical Insulating Materials.
- E. ASTM D746 – Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact.
- F. ASTM D1525 – Standard Test Method for Vicat Softening Temperature of Plastics.

- G. ASTM D648 – Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
- H. ASTM D747 – Standard Test Method for Apparent Bending Modulus of Plastics by Means of a Cantilever Beam.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - a. Literature indicating common uses of the product.
 - b. Fabricating techniques and recommendations.
 - c. Storage and handling requirements and recommendations.
 - d. Maintenance and cleaning practices.
- C. Shop Drawings:
 - a. Standard thickness ranges from ¼" to 1-1/2" thick.
 - b. Standard sizes are 48" X 96", 54" X 96", 60" X 120" & 56" X 142".
 - c. Custom sizes available upon request with minimum order quantities.
- D. Selection Samples: For each product a complete set of color chips representing manufacturer's full range of colors and patterns.
- E. Verification Samples: Selection samples are made from actual product and will represent actual product, color and pattern.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: King Plastic Corp. has a ISO 9001 complaint quality system and has been developing and manufacturing quality polymer sheets, slabs and massive shapes since 1968.
- B. Raw Material Suppliers Qualifications: King Plastic Corp. purchases all prime virgin resins from qualified suppliers using no non-prime or off spec materials.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store products in manufacturer's unopened packaging in area where the temperature does not exceed 150°F until ready for fabrication.
- B. Use caution when moving to avoid damage to the edges of the material.
- C. Store on skids or similar material as flat as possible.
- D. Do not stack pallets more than 3 high to ensure flatness and prevent damage to pre-finished surfaces.
- E. Interleaf skids with inverted pallets on $\frac{3}{4}$ " plywood if stacking more than 3 pallets high.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not fabricate products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

- A. King Plastic Corp. warrants that each product to be delivered hereunder will be of the kind designated. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE SHALL APPLY. The conditions of any tests shall be mutually agreed upon and King Plastic Corp. shall be notified of, and may be represented at, all tests that may be made. If any failure of any product delivered hereunder to be of the kind designated or specified appears prior to the date which is 60 days from the date of shipment, or prior to the date of use or resale of the product by Purchaser, whichever date of shipment, or prior to the date of use or resale of the product by the Purchaser, whichever date sooner occurs, and if the Purchaser shall notify King Plastic Corp. thereof immediately, King Plastic Corp. shall thereupon, all King Plastic Corp.'s option either (1) furnish F.O.B. its plant or such other points as it may designate a reprocessed or replacement product or (2) refund the purchase price. It is understood that any defective product will not be returned until authorized in advance by King Plastic Corp. Returned products should be intact in form as shipped and must retain King Plastic Corp. identity.
- B. The liability of King Plastic Corp. (except as to title) arising out of the supplying of said product, or its use, whether on warranties, contract, negligence or otherwise, shall not in any case exceed the cost of correcting defects in the product as herein

provided, and upon the expiration of the applicable warranty period specified herein, all such liability shall terminate. The foregoing shall constitute the sole and exclusive liability of King Plastic Corp. THE WARRANTIES STATED HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES (EXCEPT TITLE), WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, IN NO EVENT SHALL KING PLASTIC CORP. BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGE.

- C. ANY TECHNICAL ADVISE FURNISHED OR RECOMMENDATION MADE BY KING PLASTIC CORP. OR ANY REPRESENTATIVE OF KING PLASTIC CORP. CONCERNING ANY USE OR APPLICATION OF ANY PRODUCT FURNISHED UNDER THIS CONTRACT IS BELIEVED TO BE RELIABLE BUT KING PLASTIC CORP. MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO ITS ACCURACY OR COMPLETENESS OR OF THE RESULTS TO BE OBTAINED. The Purchaser assumes all responsibility for loss or damage resulting from the handling of use of any such product.

PART 2 PRODUCTS

2.1 MAUFACTURERS

- A. Acceptable Manufacturer: King Plastic Corp., which is located at: 1100 N. Toledo Blade Blvd.; North Port, FL 34288; Tel: 941-493-5502; Fax: 941-497-3274; Email: sales@kingplastic.com; Web: www.kingplastic.com.
- B. Substitutions: Not permitted.

2.2 PLASTIC MATERIALS

- A. King StarBoard®ST consisting of solid plastic sheets for use in fabricating of products mentioned in 1.2 and other products if deemed as acceptable by manufacturer.
 - a. Available in the following standard sizes:
 - i. 1/4", 1/2", 3/4", 1" & 1-1/2" thickness.
 - ii. 48" X 96" or 54" X 96" length & width.
 - iii. Custom sizes available by request.
- B. King StaBoard®ST with MicroShield®, this material contains an antimicrobial additive consisting of solid plastic sheets for use in fabricating of products mentioned in 1.2 and other products if deemed as acceptable by manufacturer.
 - a. Available in the following standard sizes:
 - i. 1/4", 1/2", 3/4", 1" & 1-1/2" thickness.
 - ii. 48" X 96" or 54" X 96" length & width.
 - iii. Custom sizes available by request.
- C. King PlastiBal® consisting of solid plastic sheets for use in fabricating of products mentioned in 1.2 and other products if deemed as acceptable by manufacturer.
 - a. Available in the following standard sizes:
 - i. 1" thickness.
 - ii. 55.5" x 144" length & width.
 - iii. Custom thicknesses & sizes available by request.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin fabrication of material until it has acclimated to the temperature of the area where the material will be fabricated in.

3.2 PREPARATION

- A. Clean work area prior to moving material to ensure that surface is not affected.
- B. Prepare the material using methods recommended by the manufacturer for achieving the best results.

3.3 ASSEMBLY

- A. Assemble fabricated pieces based on agreed upon requirements between fabricator and architect.
- B. Use standard fasteners for your industry as adhesive are not recommended, special welding rods designed for polymer sheets can be used.

3.4 CLEANING

- A. Clean all surfaces with a citrus cleaner, alcohol or mineral spirits to remove any grease or oil stains that may have occurred during assembling.
- B. For everyday cleaning of surfaces wash with a mild soap, restrain from using nylon scrub pads and brushes as they may cause marring of the finish if proper care is not taken.