



## Master<sup>®</sup> Cast 783 Fast-Cast Urethane

### Description

Master<sup>®</sup> Cast 783 is excellent for making foundry patterns, fixtures, and vacuum forming tooling. This product features low moisture sensitivity, low shrinkage for accuracy of parts, and good physical and mechanical properties.

### Physical Properties

|  |         |
|--|---------|
| Color (when mixed)                                   | Blue    |
| Mix Ratio (R:H, by weight or volume)                 | 1:1     |
| Viscosity (cps, mixed)                               | 1,650   |
| Gel Time (minutes @ 77°F)                            | 7-8     |
| Demold Time (minutes)                                | 60-90   |
| Hardness (Shore D)(ASTM 2240)                        | 85      |
| Specific Gravity (mixed)                             | 1.9     |
| Volumetric Yield (cu. in./lb.)(ASTM D792)            | 14.5    |
| Compressive Strength (psi)(ASTM D695)                | 6,500   |
| Flexural Strength (psi)(ASTM D790)                   | 3,500   |
| Flexural Modulus (psi)(ASTM D790)                    | 900,000 |
| Tensile Strength (psi)(ASTM D638)                    | 3,000   |
| Tensile Modulus (psi)(ASTM D638)                     | 902,000 |
| Izod Impact Strength (ft-lbs./in.)(ASTM D256)        | 0.30    |
| Deflection Temperature @ 66 psi (°F)(ASTM D648)      | 125     |
| Linear Shrinkage (in/in <sup>2</sup> )* (ASTM D2566) | 0.001   |

\*Actual shrinkage dependent upon mass.

### Ordering Information

| SKU    | Description                       | Size   | Net wt. |
|--------|-----------------------------------|--------|---------|
| 053720 | Master Cast 783 Gallon Unit (R&H) | Gallon | 20 lb.  |

The user shall determine the suitability of this product for their application and assumes all risks and liabilities associated with the use of this product. The exclusive remedy for all proven claims is replacement of our materials only and in no event shall Freeman Mfg. & Supply Co. be liable for special, incidental, or consequential claims.

READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT

