

# PMC® 746

Polyurethane  
Smooth-On, Inc

Message:

PMC®-746 was developed to make molds for casting gypsum plasters. Like PMC®-744, this product is well suited for use as a rubber case mold - especially large case molds where extra rigidity is required. Shore hardness is 60 A. Because of its durability and moisture resistant properties PMC® -746 is also used by zoos and museums for a variety of mold-making, display and exhibit applications. It features a convenient mix ratio (2:1 by weight or volume), and contains no mercury.

Other applications include making plaster block molds, reproducing ornamental plaster (architectural restoration), pre-cast concrete molds, casting waxes, Smooth-On rigid polyurethanes and epoxies and also for making a variety of special effects for movies and theatre.

| General Information          |                    |       |             |
|------------------------------|--------------------|-------|-------------|
| Features                     | Durable            |       |             |
|                              | High Rigidity      |       |             |
|                              | Moisture Resistant |       |             |
| Uses                         | Modeling Material  |       |             |
| Appearance                   | Amber              |       |             |
| Processing Method            | Casting            |       |             |
| Physical                     | Nominal Value      | Unit  | Test Method |
| Specific Gravity             | 1.03               | g/cm³ | ASTM D1475  |
| Specific Volume              | 0.972              | cm³/g |             |
| Mixing Ratio                 | 2A:1B by weight    |       |             |
| Molding Shrinkage - Flow     | < 0.10             | %     | ASTM D2566  |
| Hardness                     | Nominal Value      | Unit  | Test Method |
| Durometer Hardness (Shore A) | 60                 |       | ASTM D2240  |
| Elastomers                   | Nominal Value      | Unit  | Test Method |
| Tensile Stress (100% Strain) | 1.52               | MPa   | ASTM D412   |
| Tensile Strength (Break)     | 4.83               | MPa   | ASTM D412   |
| Tensile Elongation (Break)   | 650                | %     | ASTM D412   |
| Tear Strength <sup>1</sup>   | 17.5               | kN/m  | ASTM D624   |
| Thermoset                    | Nominal Value      | Unit  | Test Method |
| Pot Life (23°C)              | 15                 | min   | ASTM D2471  |
| Thermoset Mix Viscosity      | 1200               | cP    | ASTM D2393  |
| Demold Time (23°C)           | 960                | min   |             |
| NOTE                         |                    |       |             |
| 1.                           | Die C              |       |             |

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