

FlexFoam-It® X

Polyurethane
Smooth-On, Inc

Message:

Smooth-On's FlexFoam-iT!® Series consists of two-component flexible foams that are versatile and easy to use. Parts A and B are mixed and poured into a mold or other form (apply release agent if necessary). FlexFoam-iT!® III is mixed 1A:2B by volume, expands 15 times its original volume and develops a uniform 3 lb./cu. ft. cell structure. FlexFoam-iT!® V is mixed 1A:1B by volume, expands 10 times its original volume and develops a uniform 5 lb./cu. ft. cell structure. FlexFoam-iT!® X is mixed 1A:1B by volume, expands 6 times its original volume and develops a uniform 10 lb./cu. ft. cell structure. FlexFoam-iT!® 17 and FlexFoam-iT!® 25 are "self-skinning" - they develop a tough skin that will reproduce fine mold texture. FlexFoam-iT!® 17 is mixed 1A:2B by volume, expands 3.5 times its original volume and develops a uniform 17 lb/cu. ft cell structure. FlexFoam-iT!® 25 is mixed 1A:2B by weight, expands 2 times its original volume and develops a uniform 25 lb/cu. ft cell structure. FlexFoam-iT!® Series foams expand to full volume in 5 minutes, develop handling strength in 30 minutes and fully cure in 2 hours. Vibrant colors can be achieved by adding SO-Strong® color tints. FlexFoam-iT!® products can be used for a variety of arts & crafts, industrial and special effects applications including padding/cushion material, gasket material and scenic design.

| General Information | | | |
|-------------------------|-------------------------|--------------------|-------------|
| Features | Foamable | | |
| | Good Colorability | | |
| | Good Flexibility | | |
| | Good Surface Finish | | |
| Uses | Foam | | |
| | Gaskets | | |
| | Industrial Applications | | |
| | Shock Absorbing Pads | | |
| Appearance | White | | |
| Processing Method | Casting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.180 | g/cm ³ | ASTM D1475 |
| Specific Volume | 5.42 to 7.23 | cm ³ /g | |
| Handling Strength | 30.0 | min | |
| | 105A:100B by weight | | |
| Mixing Ratio | 1A:1B by volume | | |
| Volumetric Expansion | 6 times | | |
| Apparent Density | 0.16 | g/cm ³ | |
| Thermoset | Nominal Value | Unit | Test Method |
| Pot Life | 0.83 | min | ASTM D2471 |
| Thermoset Mix Viscosity | 1000 | cP | ASTM D2393 |
| Demold Time | 120 | min | |

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