



Freeman 2065 Polyurethane Elastomer

Description

Freeman 2065 is a quick setting urethane elastomer that yields hard, rigid parts ideal for a variety of applications. This material features an exceptionally low viscosity, not only minimizing air entrapment in the casting but making the 2065 capable of pouring thin-walled parts with high accuracy. Paired with the easy 1:1 mix ratio and high hardness, the 2065 is an excellent choice for the rapid creation of rigid prototype parts. The 2065 can be poured up to 3" thick.

Physical Properties

Color (when mixed)	Tan
Mix Ratio (by weight)	1:1
Mix Ratio (by volume)	1:1
Viscosity (cps, mixed)	85
Gel Time (minutes @ 77°F)	6
Demold Time (hours)	½ - 2
Hardness (Shore D) (ASTM D2240)	65
Specific Gravity (mixed)	1.12
Volumetric Yield (cu. in./lb.) (ASTM D792)	24.7
Compressive Strength (psi) (ASTM D695)	4,880
Flexural Strength (psi) (D790)	5,600
Flexural Modulus (psi) (D790)	1.7x10 ⁵
Tensile Strength (psi) (ASTM D638)	3,300
Deflection Temperature @ 66 psi (°F) (ASTM D648)	137
Linear Shrinkage (in/in ²)* (ASTM D2566)	0.002

*Actual Shrinkage dependent upon mass.

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

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Please read special instructions below prior to use!

Processing

Do not agitate material prior to mixing. Some settling may be seen at the bottom of the containers, but these are only moisture scavengers and will not affect the performance of the material. Properly weigh each component into a single cup and then mix for (2) minutes, making sure to periodically scrape the sides and bottom of the cup. Be sure to start pour in the lowest part of the mold first and pour in thin stream by creasing mixing container.