

Freeman 1066 Semi-Rigid Polyurethane Elastomer

Description

Freeman 1066 Semi-Rigid Polyurethane Elastomer was specifically designed for highly abrasion-resistant foundry tooling. Harder than the Freeman 1060, this resin offers enhanced deflection resistance with high pressure molding processes and may be more readily sanded and machined without softening.

Physical Properties

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Color (when mixed)	Red or Black	
Mix Ratio (R:H, by weight or volume)	100:50	
Viscosity (cps, mixed)	3,200	
Gel Time (minutes @ 77°F.)	15-17	
Demold Time (hours)	2-4	
Hardness (Shore D) (ASTM 2240)	65	
Specific Gravity, Mixed	1.03	
Volumetric Yield (cu. in./ lb.) (ASTM D-792)	26.9	
Tensile Strength (psi) (ASTM D-638)	3,100	
Compressive Strength (psi) (ASTM D-695)	1,800	
Compressive Modulus (psi) (ASTM D-695)	58,000	
Tear Strength (psi) (ASTM D-624)	630	
Flexural Strength @ Yield (psi) (ASTM D-790)	3,700	
Flexural Modulus (psi) (ASTM D-790	74,000	
Elongation (% - ASTM D-412)	140	
Heat Deflection Temp @ 66 psi (°F – ASTM D-648)	181	
Linear Shrinkage (in/in)* (ASTM D-2566)	.0025	
*Actual shrinkaga dapandant upon mass		

*Actual shrinkage dependent upon mass

Ordering Information

Item	Description	Size	Net Wt. Lbs.
Number			
055119	Freeman 1066 Red (Resin & Hardener)	Gallon	9.75
055120	Freeman 1066 Black (Resin & Hardener)	Gallon	9.75
055121	Freeman 1066 Resin Only	5-Gallon	32.5
055118	Freeman 1066 Hardener Only Red	5-Gallon	16.25
055122	Freeman 1066 Hardener Only Black	5-Gallon	16.25
055123	Freeman 1066 Resin Only	55-Gallon	420
055124	Freeman 1066 Hardener Only Black	55-Galon	210
055112	Freeman 1066 Hardener Only Red	55-Gallon	210

Physical and mechanical properties of tooling plastics herein reported are typical after a full cure of seven (7) days at room temperature or equivalent. Designated mix ratios must be adhered to for desired results. 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.

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READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT

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