



Freeman 690 Clear Epoxy Laminating Resin

Description

Freeman 690 is a clear laminating resin primarily used in translucent requirements and as a multi-purpose adhesive. Its clear color helps in identifying any air entrapment. Freeman 690 features a low viscosity providing excellent “wet-out”, meaning it flows easily through fiberglass cloth.

Physical Properties

Color (when mixed)	Clear
Mix Ratio (R:H, by wt.)	100:33
Mix Ratio (R:H by vol.)	100:37
Viscosity (cps, mixed)	1,445
Gel Time (min. @ 72°F)	90
Demold Time (hrs.)	24
Hardness (Shore D) (ASTM 2240)	86
Specific Gravity, Mixed (ASTM D-792)	1.1
Volumetric Yield (cu. in./ lb.)	25
Tensile Strength (psi) (ASTM D-638)	35,500
Compressive Strength (psi)	26,500
Flexural Strength (psi)	39,900
Flexural Modulus (psi)	1,300,000
Deflection Temperature (°F)	180

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055015	Freeman 690 Resin Only	5-Gallon	45
055016	Freeman 690 Hardener Only	2-Gallons	14.85

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.

READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT