

MAKOBOND ADHESIVE FILM 1025

PRODUCT DESCRIPTION

Makobond AF 1025 is a lightweight damping adhesive film which combines enduring flexibility, thermal expansion absorption, and high-temperature suitability. Endowed with extensive resistance to a range of media, this solution provides a technically adept approach for efficient noise mitigation in diverse environmental settings.

PRODUCT HIGHLIGHTS

•EPOXY / COMPOSITE CO-CURE •IMPACT RESISTANT •TOUGHNESS •DAMPING PROPERTIES

PRODUCT CHARACTERISTICS

	AF 1025
Mooney Viscosity @ 110°C	31 ME
Specific Gravity	1.04
Color	Black
Gel Time @ 140°C	15 min

PHYSICAL PROPERTIES

	Results	ASTM Method
Cured Hardness (Shore A)	60A	D2240
Tensile Strength (psi)	1,175 psi	D638
Tensile Modulus (psi)	333 psi	D638
Elongation at Break (%)	310%	D638
Glass Transition Temperature, T _g , (DMA)	135°C (275°F)	D4065
*Compression Set (%)	29%	D395

Physical Properties obtained from 15 min cure @ 140°C

* 24 Hr @ 100°C

STORAGE AND SAFETY

AF 1025 should be kept in a cool dry place and shelf life shall be 6 months at Room temp 25+/-5°C when stored in sealed packaging or 12 months if stored at 0+/-10°C or below in sealed packaging. Store calendar rolls suspended to avoid pressure points and facilitate film loosening. Cryogenic freezing extends shelf life; prevent condensation upon thawing. Users need to exercise proper care while working with material; gloves, eyewear, and proper ventilation are recommended.

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HANDLING AND CURING

Managing excessive air and moisture exposure during the handling and curing process is important, as it may lead to cure inhibition, resulting in an unfinished and tacky surface. Users can expect to trial a variety of cure processes and tactics to perfect individual part results. The overall goal is to optimize the curing conditions, achieve uniformity, reduce porosity, and enhance the quality of the elastomeric end product.

Temperature	Pressure (bar)	Cure Time (min)
110°C	1.4	240
120°C	2	64
130°C	2.7	20
140°C	3.6	7
150°C	4.8	4

MAKOBOND AF 1025 TEMPERATURE VS. CURE TIME

