

Adhesive for bonding modeling boards

RT curing

© RAMPF Advanced Polymers GmbH & Co. KG

PC - Rev.-Status: 01- 2024/08/02

Page 1 of 2

Key Properties

- Reduced hazard rating
- Color matched
- Similar density and hardness to board material
- RT curing
- Thixotropic or low viscosity depending on choice of hardener

Applications

- For bonding modeling boards with a density 0,50-0,80 g/cm³

Processing Properties

			EP-2306	EH-2903-1	EH-2904-1
Color	visual		Brown	Orange	Yellowish
Mix ratio		parts by weight	100	25	
			100		30
Density	ASTM D-792	lb/ft ³ (g/cm ³)	ca. 48 (ca. 0.77)	ca. 68 (ca. 1.09)	ca. 62 (ca. 1.00)
Viscosity at 77°F (25°C)	ASTM D-2393	cP	paste	thixotropic paste	90 -130

			EP-2306 / EH-2903-1	EP-2306 / EH-2904-1
Pot life at 77°F (25°C)	500 ml	Min	10-20	30-40
Max. layer thickness		in (mm)	-	-
Minimum curing time		h	16	16

Cured / Mechanical Properties

Cure: 7 days at RT or 14h at 100°F (38 °C)			EP-2306 / EH-2903-1	EP-2306 / EH-2904-1
Aspect	visual		Brown	Brown
Density	ASTM D-792	lb/ft ³ (g/cm ³)	ca. 50 (ca. 0.8)	ca. 50 (ca. 0.8)
Shore hardness D	ASTM D-2240		70-75	70-75
Coefficient of thermal expansion	ASTM D-3386	10 ⁻⁶ F ⁻¹ (10 ⁻⁶ K ⁻¹)	86-104 (30-40)	113-131 (45-55)
Deflection temperature, HDT	ASTM D-648	°F (°C)	131-140 (55-60)	113-122 (45-50)
Glass Transition Temperature, Tg	DSC	°F (°C)	140-149 (60-65)	127-136 (53-58)
Compressive strength	ASTM D-695	psi	7,300-8,000	7,000 -7,700
Compressive modulus	ASTM D-695	psi	406,000-479,000	363,000-435,000
Flexural strength	ASTM D-790	psi	4,400-5,100	4,400-5,100
Flexural modulus	ASTM D-790	psi	363,000-435,000	334,000-406,000



Processing

The processing and material temperature should be between 68-77°F (20-25°C). Mix the two components thoroughly in the ratio indicated and apply to both sides of the surface to be bonded.

Packaging

RAKU® TOOL EP-2306	3 kg
RAKU® TOOL EH-2903-1	0.75 kg
RAKU® TOOL EH-2904-1	2 kg, 1kg

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label. Partly used containers should always be sealed appropriately and used up as soon as possible.

Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.
