

**Technical Data:**Issued: May 2010  
Revision 2: June 2018, Page: 1**EP 1990 DV**

Semi-flexible adhesive with high thermal shock resistivity

**Product Description**

EP-1990DV is a two-component semi-flexible epoxy adhesive displaying excellent adhesion to metals, ceramics and plastic materials.

**Features & Benefits**

- Easy mix 1:1 ratio by volume
- High adhesion properties
- Excellent electrical properties
- High water proof
- Very low moisture permeability

**Applications**

Bonding and sealing metals, plastics, glass and masonry products. Good retention of strength after environmental aging. Suitable for medical devices, filtration and electronics.

**Typical Uncured Physical Properties**

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

<b>Base Resins</b>	Base (A) Hardener (B)	Epoxy Resin Polyamide Resin
<b>Appearance/Color</b>	Base (A) Hardener (B)	Off-white Black
<b>Viscosity</b> per ASTM-D-2393 @ 25°C, mPa*s	Base (A) Hardener (B)	60,000-75,000 100,000-120,000
<b>Density @ 25°C, g/cm<sup>3</sup></b>	Base (A) Hardener (B)	1.35 1.22

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<b>Processing data</b>	<b>Mix Ratio</b> (by volume)	1:1
	<b>Color</b>	Black
	<b>Gel Time</b> (100 g @ 25°C), min	80-90
	<b>Hardening</b> (2mm layer @ 25°C), hr	3-4
	<b>Initial Curing</b> @ 25°C, hr	24
<b>Typical Cured Properties</b>	<b>Final Curing</b> @ 25°C	>7 days
	<b>Hardness</b> , Shore D	70
	<b>Lap Shear Strength</b> , etched Al, MPa	21
	<b>Service Temperature</b> , °C	-40°C to 90°C
	<b>continues use</b>	-40 to 85
	<b>intermittent use</b>	-40 to 130

**Storage** Store products at 16-26°C for maximum shelf life. During about 2 months of sea carriage the product can tolerate 40 to 60°C up for a couple of hours per day

**Packaging** 1:1 50 ml duo-pack cartridges

**Shelf Life** These products have a shelf life of 12 months in unopened Duo-Pack cartridges.

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