

Technical Data:

Issued: May 2010

Revision 3: March 2021 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.

Base Resins	Base (A) Hardener (B)	Epoxy Resin Polyamide Resin
Appearance/Color	Base (A) Hardener (B)	Off-white Black
Viscosity per ASTM-D-2393 @ 25°C, mPa*s	Base (A) Hardener (B)	60,000-75,000 90,000-120,000
Density @ 25°C, g/cm³	Base (A) Hardener (B)	1.35 1.22

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Processing data	Mix Ratio (by volume)	1:1
	Color	Black
	Gel Time (100 g @ 25°C), min	80-110
	Hardening (2mm layer @ 25°C), hr	3-4
	Initial Curing @ 25°C, hr	24
Typical Cured Properties	Final Curing @ 25°C	>7 days
	Hardness , Shore D	70
	Lap Shear Strength , etched Al, MPa	21
	Service Temperature , °C	-40°C to 90°C
	continues use	-40 to 85
	intermittent use	-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
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Packaging	1:1 50 ml duo-pack cartridges
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Shelf Life	These products have a shelf life of 12 months in unopened Duo-Pack cartridges.
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Limitation of Liability	Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.
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