

Technical Data: Issued: Sept. 2006	EP 502BK/EI	PC 502BK		
Revision 4: Dec 2022, Page: 1	Two Component Semi-Fle	exible Epoxy Compound		
Product Description	EP 502BK/EPC 502BK is a two-component easy-to-use semi flexible epoxy compound for potting and encapsulating. EP 502BK designed for protection electronic components and systems			
Features & Benefits	• Easy-to-use	• Semi-flexible		
	• Room temperature cure	• Low viscosity		
	• High electrical insulation • High penetration			
Applications	Encapsulation and potting of electrical and electronic components.			
Typical Uncured Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.			
	Appearance/Color	EP 502BK (A) EPC 502BK (B)	black yellowish	
	Viscosity @25°C per ASTM-D-2196, mPa*s	A B Mixed A+B	700 70 200	
	Density , g/cm ³ @ 25°C	A B	1.1 1.0	
	Mix Ratio (A:B)		100:50	
Instructions for use:	Weigh required amount of resin EP 502BK and hardener EPC 502BK into a clean container in the recommended ratio. Blend thoroughly being careful to scrape sides and bottom of the container for 2-3 minutes to ensure uniform mixture. To produce a void-free casting, the mixture should be deairing at 2-5mmHg for 3-4 minutes to remove trapped air.			
Cure Schedule:	16-24 hr @RT, or 3-4 hr @ RT+4 hr @60°C			

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EP 502BK/EPC 502BK

Two Component Semi-Flexible Epoxy Compound

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Processing	Color	black
	Pot-life @ 25°C, (100g), min	10-15
	Gel-time @ 25°C, (100g), min	20
Cured properties	Hardness, Shore D	78
	Tensile Strength, MPa	20-35
	Tensile Elongation (at max), %	2.0-4.0
	Flexural Strength, MPa	25-40
	Flexural Modulus, MPa	800-1000
	Service Temperature, °C	-40 to 90
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Storage and Handling	The shelf life of the EP 502BK is 12 months at 20-35°C. For the best results, store in tightly closed original containers. Certain resins and hardeners are susceptible to crystallization. If	

	Stir and allow content to cool to room temperature before use.
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.

have dissolved.

crystallization occurs, warm the container to 50-60°C until the crystals