

Technical Data:	EP 520/EPC 5	520		
Issued: Nov. 2007 Revision: Sept2016, Page: 1	Low Viscosity Room Temper			
Product Description	EP 520/EPC 520 is a clear, low viscosity, two component epoxy compound designated for composite materials used in aviation and aerospace, and industrial composites. EP 520 exhibits high temperature resistance, excellent mechanical properties and high chemical resistance.			
Features & Benefits	• Low viscosity • Long pot life at RT			
	• Excellent mechanical properties • High temperature resistance			
	• Rapid cure at high temperature			
Applications	Manufacturing of Glass/Epoxy or Carbon/Epoxy composite parts using Resin Transfer Molding, wet lay-up and infusion processes at low to moderate temperature.			
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.			
	Base Resins	Base (A) Hardener (B)	Epoxy Resins Amines	
	Appearance/Color	Base (A) Hardener (B)	Clear Clear	
	Viscosity @25°C, mPa*s ASTM-D-2393	Base (A) Hardener (B)	1400-1800 40-50	
	Density @ 25°C, g/cm ³	Base (A) Hardener (B)	$\begin{array}{c} 1.17 \pm 0.03 \\ 0.94 \pm 0.02 \end{array}$	
	Mix Ratio A:B, (w/w)		100:30	
	Mix Viscosity @25°C, mPa*s ASTM-D-2393		500-700	
	Work life, @ 25°C, min		60-90	
	Gel-time, 100g @ 25°C, min		120-150	

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Note:

EP 520/EPC 520

Low Viscosity Room Temperature Curing Epoxy

Typical Cured Properties

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Curing Schedule	$24hr/23^{\circ}C + 8hr/60^{\circ}C$ or $24hr/23^{\circ}C + 4hr/100^{\circ}C$
Hardness, ASTM-D-2240, Shore D	80-85
Tensile Strength, ASTM-D-638, MPa	78-83
Tensile Elongation, ASTM-D-638,%	3.0-3.5
Flexural Strength, ASTM-D-790, MPa	140-150
Flexural Modulus, ASTM-D-790, MPa	3400-3500
Compressive Strength, ASTM-D-695, MPa	1100-1200
HDT, (0.455MPa), ASTM D-648, °C	114
Glass Temperature, ASTM-3418, °C	119
Service Temperature, °C	-40 to 150

Storage and handling	The shelf life of the EP 520 is 12 months at 16-35°C. For the best results, store in tightly closed original containers. Certain resins and hardeners are susceptible to crystallization. If crystallization occurs, warm the container to 50-60°C until the crystals have dissolved. Stir and allow content to cool to room temperature before use.	
Packaging	Packaging sizes are available from 1L to 25L containers	
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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