

# Epocast 35-A/927

Epoxy; Epoxide

Huntsman Advanced Materials

## Message:

DESCRIPTION : Epocast® 35-A resin/Hardener 927 epoxy laminating system is a two-component, solvent-free material designed to perform at temperatures up to 300°F (149°C). The medium-viscosity liquid laminating system readily wets glass fabrics; its long work life supports extended fabrication times for large composite repairs. Epocast® 35-A resin/Hardener 927 epoxy laminating system is well suited for repair or fabrication of laminated composite structures and other applications requiring good high-temperatures properties. Epocast® 35-A resin/Hardener 927 epoxy laminating system is qualified to BMS 8-214.

General Information			
Features	Good Thermal Stability		
	Medium Viscosity		
Uses	Laminates		
Appearance	Amber		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- <sup>1</sup>	1.00	g/cm <sup>3</sup>	
--	1.13	g/cm <sup>3</sup>	
-- <sup>2</sup>	1.19	g/cm <sup>3</sup>	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			ASTM D790
25°C <sup>3</sup>	19100	MPa	
25°C <sup>4</sup>	24000	MPa	
25°C <sup>5</sup>	20800	MPa	
25°C <sup>6</sup>	26200	MPa	
Flexural Strength			ASTM D790
25°C <sup>7</sup>	359	MPa	
25°C <sup>8</sup>	473	MPa	
25°C <sup>9</sup>	534	MPa	
25°C <sup>10</sup>	717	MPa	
Compressive Modulus			ASTM D695
-- <sup>11</sup>	6460	MPa	
-- <sup>12</sup>	9380	MPa	
-- <sup>13</sup>	25900	MPa	
-- <sup>14</sup>	27800	MPa	
Compressive Strength			ASTM D695

149°C <sup>15</sup>	13.8	MPa	
149°C <sup>16</sup>	23.4	MPa	
25°C <sup>17</sup>	423	MPa	
25°C <sup>18</sup>	496	MPa	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 25		
Resin	Mix Ratio by Weight: 100		
Thermoset Mix Viscosity			ASTM D2196
25°C <sup>19</sup>	3200	cP	
25°C <sup>20</sup>	25000	cP	
25°C	7000	cP	
Demold Time (83°C)	240	min	
Post Cure Time (121°C)	2.0	hr	
Additional Information	Nominal Value	Unit	Test Method
Work Life - 100 gms (25°C)	4.00 to 5.00		ASTM D1338
NOTE			
1.	Hardener		
2.	Resin		
3.	Cure #1, After two hours boiling water		
4.	Cure #2, After two hours boiling water		
5.	Cure #1		
6.	Cure #2		
7.	Cure #1, After two hours boiling water		
8.	Cure #2, After two hours boiling water		
9.	Cure #1		
10.	Cure #2		
11.	Cure #1, 149°C		
12.	Cure #2, 149°C		
13.	Cure #1, 25°C		
14.	Cure #2, 25°C		
15.	Cure #1, tested at 149°C		
16.	Cure #2, tested at 149°C		
17.	Cure #1		
18.	Cure #2		
19.	Resin		
20.	Hardener		

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