# Epoxies, Ect. 10-2080 HV

#### Polyurethane

Epoxies, Etc.

#### Message:

The 10-2080 and 10-2080 HV were developed to produce general purpose, semi rigid polyurethane adhesives for bonding a wide variety of plastic and metal substrates. The flexibility of these adhesives allows bonding to substrates with high coefficients of thermal expansion (CTE) and substrates with different CTE's.

The same isocyanate (iso) component is used separately with each polyol at a convenient 1:1 ratio by volume. The selection of polyol determines the initial viscosity of the adhesive. 10-2080 produces a light paste consistency similar to honey and 10-2080 HV produces a heavy paste consistency similar to grease. Please note each iso and polyol offer good low viscosity handling characteristics and turn thixotropic upon mixing.

General Purpose   Good Adhesion   Good Flexibility   High Viscosity   Semi Rigid	General Information		
Good Adhesion   Good Flexibility   High Viscosity   Semi Rigid	Features	Bondability	
Good Flexibility High Viscosity Semi Rigid  Uses Adhesives Bonding General Purpose  Appearance Clear Amber Thermal Nominal Value Unit Thermal Onductivity 0.12 W/m/K Ellectrical Nominal Value Unit Insulation Resistance 1 2.4E-11 0.hour of Properties Vominal Value Unit Color 2 2.5.0 0.min Uncured Properties Nominal Value Unit Color3 Amber3 Amber3 Amber3 Amber3 Amber3 Olear/Transparent  Mix Ratio by Weight (PBW)  Part A  100 Part B  90  Density  25°C 6 1.16 25°C 6 25°C 6 1.16 26°C 7 26°C 7 26°C 7 27 28°C 7 29°C		General Purpose	
High Viscosity   Semi Rigid		Good Adhesion	
Semi Rigid   Sem		Good Flexibility	
Uses         Adhesives Bonding General Purpose           Appearance         Clear Amber           Thermal         Nominal Value         Unit           Thermal Conductivity         0.12         W/m/K           Electrical         Nominal Value         Unit           Insulation Resistance ¹         2.4E-11         ohms           Handle Time (25°C)         25.0         min           Uncured Properties         Nominal Value         Unit           Color         — ²         Amber           — -³         Clear/Transparent         Unit           Mix Ratio by Weight (PBW)         Vicear/Transparent           Part A         100         — Year B           Postoty         5°C ⁴         1.05         9/cm³           25°C ⁴         1.06         9/cm³           25°C ⁵         1.16         9/cm³           Viscosity         25°C ⁵         3.0         Pa·s		High Viscosity	
Bonding   General Purpose   General Purpose   Clear Amber     Thermal   Nominal Value   Unit     Thermal Conductivity   0.12   W/m/K     Electrical   Nominal Value   Unit     Insulation Resistance   0.4E-11   ohms     Handle Time (25°C)   25.0   min     Uncured Properties   Nominal Value   Unit     Color		Semi Rigid	
Appearance         Clear Amber           Thermal         Nominal Value         Unit           Thermal Conductivity         0.12         W/m/K           Electrical         Nominal Value         Unit           Insulation Resistance <sup>1</sup> 2.4E-11         ohms           Handle Time (25°C)         25.0         min           Clor         W/m/K           Color         Amber         Wink <sup>2</sup> Amber         Wink <sup>3</sup> Clear/Transparent         Wink           Mix Ratio by Weight (PBW)         Wink         Wink           Part A         100         Wink           Part B         90         Wink           25°C <sup>4</sup> 1.05         g/cm³           25°C <sup>5</sup> 1.16         g/cm³           25°C <sup>5</sup> 3.0         Pa·s	Uses	Adhesives	
Appearance         Clear Amber           Thermal         Nominal Value         Unit           Thermal Conductivity         0.12         W/m/K           Electrical         Nominal Value         Unit           Insulation Resistance <sup>1</sup> 2.4E-11         ohms           Handle Time (25°C)         25.0         min           Uncured Properties         Nominal Value         Unit           Color        2         Amber          3         Clear/Transparent           Mix Ratio by Weight (PBW)         Viscarify           Part A         100         Viscarify           Density         25°C <sup>4</sup> 1.05         g/cm³           25°C <sup>5</sup> 1.16         g/cm³           Viscosity         25°C <sup>6</sup> 3.0         Par 5		Bonding	
Thermal         Nominal Value         Unit           Thermal Conductivity         0.12         W/m/K           Electrical         Nominal Value         Unit           Insulation Resistance ¹         2.4E-11         ohms           Handle Time (25°C)         25.0         min           Uncured Properties         Nominal Value         Unit           Color         — ²         Amber           — ³         Clear/Transparent         Mix Ratio by Weight (PBW)           Part A         100         — Part B           Part B         90         — Part B           Density         25°C ⁴         1.05         g/cm³           25°C ⁵         1.16         g/cm³           Viscosity         Pa·s		General Purpose	
Thermal         Nominal Value         Unit           Thermal Conductivity         0.12         W/m/K           Electrical         Nominal Value         Unit           Insulation Resistance ¹         2.4E-11         ohms           Handle Time (25°C)         25.0         min           Uncured Properties         Nominal Value         Unit           Color         — ²         Amber           — ³         Clear/Transparent         Mix Ratio by Weight (PBW)           Part A         100         — Part B           Part B         90         — Part B           Density         25°C ⁴         1.05         g/cm³           25°C ⁵         1.16         g/cm³           Viscosity         Pa·s	Amnagrana	Clear Amb ar	
Thermal Conductivity         0.12         W/m/K           Electrical         Nominal Value         Unit           Insulation Resistance 1         2.4E-11         ohms           Handle Time (25°C)         25.0         min           Uncured Properties         Nominal Value         Unit           Color        2         Amber          3         Clear/Transparent         Mix Ratio by Weight (PBW)           Part A         100			
Electrical Nominal Value Unit  Insulation Resistance 1 2.4E-11 ohms  Handle Time (25°C) 25.0 min  Uncured Properties Nominal Value Unit  Color 2 Amber 3 Clear/Transparent  Mix Ratio by Weight (PBW)  Part A 100  Part B 90  Density  25°C 4 1.05 g/cm³  25°C 5 1.16 g/cm³  Viscosity  25°C 6 3.0 Par's			
Insulation Resistance <sup>1</sup> 2.4E-11       ohms         Handle Time (25°C)       25.0       min         Uncured Properties       Nominal Value       Unit         Color       ************************************			
Handle Time (25°C)         25.0         min           Uncured Properties         Nominal Value         Unit           Color        2         Amber          3         Clear/Transparent           Mix Ratio by Weight (PBW)         100           Part A         100           Part B         90           Density         25°C 4           25°C 5         1.05         g/cm³           25°C 5         1.16         g/cm³           Viscosity         25°C 6         3.0         Pa·s	Electrical	Nominal Value	Unit
Uncured Properties         Nominal Value         Unit           Color        2         Amber          3         Clear/Transparent	Insulation Resistance <sup>1</sup>	2.4E-11	ohms
Color        2       Amber        3       Clear/Transparent         Mix Ratio by Weight (PBW)	Handle Time (25°C)	25.0	min
<sup>2</sup> Amber <sup>3</sup> Clear/Transparent  Mix Ratio by Weight (PBW)  Part A 100  Part B 90  Density  25°C <sup>4</sup> 1.05 g/cm³  25°C <sup>5</sup> 1.16 g/cm³  Viscosity  25°C <sup>6</sup> 3.0 Pars	Uncured Properties	Nominal Value	Unit
3 Clear/Transparent  Mix Ratio by Weight (PBW)  Part A 100  Part B 90  Density  25°C 4 1.05 g/cm³  25°C 5 1.16 g/cm³  Viscosity  25°C 6 3.0 Rays Pars	Color		
Section Halphack         Mix Ratio by Weight (PBW)         Part A       100         Part B       90         Density         25°C <sup>4</sup> 1.05       g/cm³         25°C <sup>5</sup> 1.16       g/cm³         Viscosity         25°C <sup>6</sup> 3.0       Pa·s	2	Amber	
Part A       100         Part B       90         Density         25°C 4       1.05       g/cm³         25°C 5       1.16       g/cm³         Viscosity         25°C 6       3.0       Pa·s	3	Clear/Transparent	
Part B       90         Density         25°C <sup>4</sup> 1.05       g/cm³         25°C <sup>5</sup> 1.16       g/cm³         Viscosity         25°C <sup>6</sup> 3.0       Pa·s	Mix Ratio by Weight (PBW)		
Density       25°C <sup>4</sup> 1.05     g/cm³       25°C <sup>5</sup> 1.16     g/cm³       Viscosity       25°C <sup>6</sup> 3.0     Pa·s	Part A	100	
25°C <sup>4</sup> 1.05 g/cm <sup>3</sup> 25°C <sup>5</sup> 1.16 g/cm <sup>3</sup> Viscosity 25°C <sup>6</sup> 3.0 Pa·s	Part B	90	
25°C <sup>5</sup> 1.16 g/cm³ Viscosity 25°C <sup>6</sup> 3.0 Pa·s	Density		
Viscosity 25°C <sup>6</sup> 3.0 Pa·s	25°C <sup>4</sup>	1.05	g/cm³
25°C <sup>6</sup> 3.0 Pa·s	25°C <sup>5</sup>	1.16	g/cm³
	Viscosity		
25°C <sup>7</sup> 9.0 Pa·s	25°C <sup>6</sup>	3.0	Pa·s
	25°C <sup>7</sup>	9.0	Pa·s

Curing Time	24	hr
Pot Life (25°C)	3.0 to 4.8	min
Shelf Life	3	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	75 to 80	
Electric Strength (3.18 mm)	> 16	kV/mm
NOTE		
1.	25°C	
2.	Part A	
3.	Part B	
4.		
	Part B	
5.	Part B Part A	

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