

# INSULBOND 5-171-1

Epoxy; Epoxide

ITW Polymers Coatings North America

## Message:

INSULBOND 5-171-1 is a clear, flowable epoxy resin adhesive designed for applications that require a high degree of peel strength, flexibility, and ability to bond to varied substrates. Curable at room temperature or mild oven temperatures, INSULBOND 5-171-1 retains its flexibility over a very broad range of temperatures, from -55°C to 150°C. It can be used to bond metals, glass, wood and many plastics, including vinyl. The pot life is over one hour, which allows for easy positioning of parts.

General Information			
Features	Bondability		
	Good Flexibility		
Uses	Adhesives		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	80 to 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.8	MPa	ASTM D638
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 90		
Part B	Mix Ratio by Weight: 80		
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- <sup>1</sup>	Amber		
-- <sup>2</sup>	Amber		
Density			
-- <sup>3</sup>	0.958	g/cm <sup>3</sup>	ASTM D2393
-- <sup>4</sup>	1.08	g/cm <sup>3</sup>	
Viscosity			
25°C <sup>5</sup>	0.60	Pa · s	
25°C <sup>6</sup>	1.3	Pa · s	
25°C <sup>7</sup>	1.8	Pa · s	
Curing Time			
171°C	3.0	hr	
25°C	48	hr	
Gel Time	2.4E+2 to 3.6E+2	min	
Pot Life	60 to 120	min	
Cured Properties	Nominal Value	Unit	Test Method
Peel Strength			
T-Peel <sup>8</sup>	0.701 to 0.876	N/mm	

T-Peel <sup>9</sup>	1.75 to 2.10	N/mm
T-Peel <sup>10</sup>	1.58 to 1.75	N/mm
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Mixed	
7.	Part A	
8.	Kapton	
9.	Stainless Steel	
10.	Titanium	

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