

Addisil™ 8101

Silicone

Momentive Performance Materials Inc.

Message:

Addisil 8101 silicone adhesive is a one-component heat curable silicone adhesive sealant which will bond to many substrates without a primer and which will cure rapidly at elevated temperatures. This product has a very long working time at room temperature and will not cure completely until exposed to elevated temperatures.

Addisil 8101 is a grey thixotropic material

Key Features and Benefits

One component product - no mixing required

Room temperature storage

Very fast cure at elevated temperature (in a range of 110°C to 230°C)

Primerless adhesion to many types of substrates (e.g. PBT, PA, phenolic resins, copper, nickel, aluminum, stainless steal, brass, ceramic and glass)

No formation of cure by-products; low linear shrinkage

Non-corrosive to metals and sensitive substrates

Excellent dielectric properties

Outstanding performance over a wide temperature range

Service temperature -50°C to 250°C

General Information			
Features	Bondability		
	Fast Cure		
	Good Adhesion		
	Heat Cure		
	Low Shrinkage		
	Non-Corrosive		
	Thixotropic		
Uses	Adhesives		
	Sealants		
Appearance	Grey		
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (< 27°C)	> 17	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	
Viscosity	160 to 650	Pa · s	
Curing Time (175°C)	0.17	hr	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	43		
Tensile Strength	9.20	MPa	
Tensile Elongation at Break	580	%	
Electric Strength (2.00 mm)	27	kV/mm	DIN 53481
Relative Permittivity (50 Hz, 1.00 mm)	2.94		DIN 53483

Volume Resistivity (1.00 mm)	2.1E+13	ohms·cm	DIN 53481
Dissipation Factor (50 Hz, 1.00 mm)	1.8E-3		DIN 53483

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