Epoxies, Ect. 20-1634

Silicone

Epoxies, Etc.

Message:

20-1634 is a low density, two component silicone elastomer. The 20-1634 is less than half the weight of most commercially available potting and encapsulating compounds.

20-1634 utilizes an advanced micro balloon technology filler. This system is ideal for applications that require low weight, flexibility, high heat resistance, and excellent electrical insulation properties.

20-1634 is formulated without solvents or other toxic materials. It is therefore not regulated or considered hazardous for transportation.

Features:

Low Density

Flexible

Deep section curing (beyond 1-2 inches)

High operating temperatures

General Information

Solvent free

Benefits:

Does not add much weight to products

Low stress on components and vibration resistant

No need for multiple pours due to low exotherm

Good protection in extreme environmental applications

No by-products released during cure and safe to handle

Features	Electrically Insulating Good Flexibility		
	Low Density		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
	Electronic Insulation		
Appearance	White		
Processing Method	Encapsulating		
	Potting		
Thermal	Nominal Value	Unit	
CLTE - Flow	2.0E-4	cm/cm/°C	
Thermal Conductivity	0.16	W/m/K	
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	30000	сР	
Additional Information	Nominal Value	Unit	
Operating Temperature	-65.0 to 235	°C	
Uncured Properties	Nie arte al Malare	Unit	
Official Control of the Control of t	Nominal Value	Offic	
Color	Nominal Value	Oriit	

2	White	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	10	
Density		
25°C ³	0.798	g/cm³
25°C ⁴	0.818	g/cm³
25°C ⁵	0.968	g/cm³
Viscosity		
25°C ⁶	0.10	Pa·s
25°C ⁷	45	Pa·s
Curing Time		
150°C	0.33	hr
100°C	1.0	hr
65°C	2.0 to 4.0	hr
25°C	24 to 48	hr
Pot Life ⁸ (25°C)	60	min
Shelf Life	6	month
Shelf Life Cured Properties	6 Nominal Value	month Unit
Cured Properties	Nominal Value	
Cured Properties Shore Hardness (Shore A)	Nominal Value	Unit
Cured Properties Shore Hardness (Shore A) Tensile Strength	Nominal Value 34 0.862	Unit MPa
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break	Nominal Value 34 0.862 230	MPa %
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength	Nominal Value 34 0.862 230 2.89	Unit MPa % kN/m
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength	Nominal Value 34 0.862 230 2.89 18	Unit MPa % kN/m
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz)	Nominal Value 34 0.862 230 2.89 18 3.10	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C)	Nominal Value 34 0.862 230 2.89 18 3.10	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C) NOTE	Nominal Value 34 0.862 230 2.89 18 3.10 1.0E+14	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C) NOTE 1.	Nominal Value 34 0.862 230 2.89 18 3.10 1.0E+14	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C) NOTE 1.	Nominal Value 34 0.862 230 2.89 18 3.10 1.0E+14 Part B Part A	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C) NOTE 1. 2. 3.	Nominal Value 34 0.862 230 2.89 18 3.10 1.0E+14 Part B Part A Part A	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C) NOTE 1. 2. 3. 4.	Nominal Value 34 0.862 230 2.89 18 3.10 1.0E+14 Part B Part A Part A Mixed	Unit MPa % kN/m kV/mm
Cured Properties Shore Hardness (Shore A) Tensile Strength Tensile Elongation at Break Tear Strength Electric Strength Relative Permittivity (100 Hz) Volume Resistivity (25°C) NOTE 1. 2. 3. 4. 5.	Nominal Value 34 0.862 230 2.89 18 3.10 1.0E+14 Part B Part A Part A Mixed Part B	Unit MPa % kN/m kV/mm

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