

June 10, 2020

UL Approved 2 Part Silicone Potting Compound. UL # E306078

Characteristics before Hardening:

Part A

	Spec. Value	Typical Range
Appearance: Grey Fluid		
Basic chemical composition:	Polysiloxane	
Viscosity mPa. s (GB/T2794-1995):	2600	2500 ~ 3000
Density g/cm <sup>3</sup> (GB/T13354-1992):	1.57	1.52~1.62

Part B

Appearance: White Fluid		
Basic chemical composition:	Polysiloxane	
Viscosity mPa. S (GB/T2794-1995):	2300	2000 ~ 2500
Density g/cm <sup>3</sup> (GB/T13354-1992):	1.57	1.52~1.62

Characteristics after Mixing:

Appearance: Grey Fluid		
Mixing Weight Ratio: A : B =1 : 1		
Viscosity Mpas (GB/T2794-1995) :	2500	
Operation Time min (25°C) :	120	80 ~ 150
Hardening Time hr (@ 25°C) :	8	6 ~ 8
Hardening Time min (@80°C):	25	15 ~ 40

Characteristics after Hardening:

Hardness Shore A(GB/T531.1-2008):	60	60 ~ 70
Tensile Strength MPa (GB/T528-2009):	3.5	
Breaking Elongation Rate % (GB/T528-2009):	65	
Thermal Conductivity [W/(m·K)]:	0.64	0.6 ~ 0.7
(TPS)		
Dielectric Strength kV/mm(GB/T1695-2005) :	21	≥21
Dielectric Constant (1.2MHz) (GB/T1693-2007):	3.0	≥2.8
Volume Resistivity Ω cm (GB/T1692-2008):	1.5×10 <sup>14</sup>	≥1.0×10 <sup>14</sup>
Water Absorption Rate (%) :	0.1	
Packing Particle Size (micron):	2 ~ 3	
Operating Temperature Range:		-60 ~ 230 deg C