EP-177

Electrical & Electronic Potting Compounds

Features

- Good flowability, easy to handle.
- Highly transparent and low yellowing.
- Good chemical and weather resistance after cured.
- RoHS compliant, recommended in applications like electronics and plastic components requiring a clear, low-yellowing potting.

Typical Properties

		EP-177A	EP-177B
Color	:	Transparent	Transparent
Viscosity	:@25°C, S21 10rpm	850 ~ 1,550 cps	-
	@25°C, S21 100rpm	-	<100 cps
Specific Gravity	:	1.11 ~ 1.13	0.94 ~ 0.96
Mix Rate	:(A : B), By Weight	4 : 1	
Pot Life	:@25°C	2 ~ 3 hrs	
Through Cure Time	:	25°C x 5 ~ 7days	
		80°C x 1 ~ 1.5hrs	
Specific Gravity of Mixture	:@25°C	1.08 ~ 1.1	
Hardness	:Shore D	68 ~ 74	
Volume Resistivity	:	2.02 x 10^{14} ohm-cm	
Surface Resistivity	:	6.42 x 10^{12} ohm	
Dielectric Constant	:@100Hz	4.1	
Coefficient of Thermal Expansion	:@-10 ~ 20°C	70 μm/m/°C	
	@70 ~ 100°C	265 μm/m/°C	
Glass Transition Temp.	:MDSC	31°C	
	TMA	35°C	
Degradation Temp.	:TGA 10°C/mm	167°C	
Water Absorption Ratio	:@25°C, 24hrs	0.5%	
	@80°C, 24hrs	0.6%	
	@97°C, 1.5hrs	1.2%	
Weight Loss Ratio	:@100°C	0.32%	
	@150°C	3.10%	
	@200°C	9.66%	
	@250°C	15.68%	
	@300°C	21.23%	
	@350°C	27.31%	
Shelf Life	:@25°C	1 year	

※EP-177 should be stored in cool and dark place. The resin and hardener will turn yellow when exposed to sunlight.

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