



ASP-1120 A/B

Shin-Etsu Silicones of America, Inc.
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Product Description

Shin-Etsu's ASP-1120 A/B is a dual component, heat cure LED potting encapsulant that is designed for use in conjunction with Shin-Etsu's KER-2000 DAM/KER-2020 DAM damming materials for LED and COB applications. ASP-1120 A/B is a phenyl-based, hybrid technology which allows for an exceptional refractive index.

Product Features

- Exceptional refractive index
- Dual component
- Heat cure
- Low stress

Typical Applications

- Encapsulating LED and COB components

Typical Properties

Type	Potting Encapsulant
Cure Type	Addition
One/Two Component	Two
Color	Transparent
Density @ 23C (g/cm ³)	1.15
Viscosity A (cps)	450.00
Mix Ratio by weight	100:100
Cure Conditions	2hr@100C + 4hr@150C
Working Time	24 Hours
Shore A Hardness	65
Tensile Strength (MPa)	2.50
% Elongation	65
Shear Strength (MPa)	1.10
Softening Point (C)	20
Coefficient of Linear Expansion α_1 (ppm)	80
Coefficient of Linear Expansion α_2 (ppm)	250
Refractive Index (23C/589nm)	1.55
% Light Transmissivity (400nm/2mm)	89
Oxygen Permeability (cc/m ² /day)	320
Usable Temperature Range (C)	-40 to +180

Note: Values are not for specification purposes.

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