# Technical Data Sheet

## QS1222

**10:1 Addition cure silicone encapsulant optically clear**

### Key Features
- Non yellowing under UV light
- Optically clear
- Heat cure only
- 10:1 Mix Ratio

### Property | Test Method | Value
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**Uncured product**
Appearance | Clear Liquid |
Colour A Part | Transparent |
Colour B Part | Transparent |
Cure Type | Addition |
Max Cure Mins @ 100 °C | 120 mins |
Mix Ratio | 10:1 |
Pot Life mins | 1440 mins |
Rheology | Viscous Liquid |
SG A Part | BS ISO 2781 |
SG B Part | BS ISO 2781 |
Self Bonding | Yes |
Viscosity A-Part mPas | Brookfield |
Viscosity B-Part mPas | Brookfield |
Viscosity Mixed mPas | Brookfield |
**Cured product**
After 1 hour at 150°C
CTE Linear ppm/°C | 275 ppm/°C |
CTE Volumetric ppm/°C | 825 ppm/°C |
Colour | Transparent |
Duro Shore A | ASTM D 2240-95 |
Elongation % | ISO 37 |
Linear Shrinkage % | 0.1 % |
Max Working Temp +°C | AFS_1540B |
Min Working Temp - °C | -55 °C |
Modulus @ 100% Strain MPa | 1.56 MPa |
Modulus Youngs MPa | 1.69 MPa |
SG | BS ISO 2781 |
Tensile MPa | ISO 37 |
Thermal Conductivity W/mK | 0.18 W/mK |
UL 94V-0 | No |
**Storage**
Max storage temperature °C | 38 °C |
Shelf life | 12 mths |
**Electrical properties**
Dielectric Constant @ 1kHz | ASTM D-150 |
Dielectric Strength kV/mm | ASTM D-149 |
Dissipation Factor @ 1kHz | ASTM D-150 |
Volume Resistivity ohms cm | ASTM D-257 |

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