QSil216
10:1 Addition cure silicone encapsulant optically clear

Key Features
* Non yellowing under UV light
* Optically clear
* Low Viscosity
* Wide temperature range

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 Hrs @ 25 °C | | 20 hrs
Max Cure Mins @ 100 °C | | 60 mins
Mix Ratio | | 10:1
Pot Life mins | | 240 mins
Rheology | | Viscous Liquid
Self Bonding | | No
Viscosity A-Part mPas | Brookfield | 5000 mPas
Viscosity B-Part mPas | Brookfield | 1000 mPas
Viscosity Mixed mPas | Brookfield | 4500 mPas

Cured product
After 1 hour at 100 °C
CTE Linear ppm/°C | | 275 ppm/°C
CTE Volumetric ppm/°C | | 825 ppm/°C
Colour | | Transparent
Duro Shore A | ASTM D 2240-95 | 40
Elongation % | ISO 37 | 100 %
Linear Shrinkage % | | 0.2 %
Max Working Temp + °C | AFS_1540B | 204 °C
Min Working Temp - °C | | -55 °C
SG | BS ISO 2781 | 1.02
Tensile MPa | ISO 37 | 4.8 MPa
Thermal Conductivity W/mK | | 0.18 W/mK
UL 94V-0 | | No

Storage
Max storage temperature °C | | 30 °C
Shelf life | | 24 mths

Electrical properties
Dielectric Constant @ 1kHz | ASTM D-150 | 2.69
Dielectric Strength kV/mm | ASTM D-149 | 19.70 kV/mm
Dissipation Factor @ 1kHz | ASTM D-150 | 0.0006
Volume Resistivity ohms cm | ASTM D-257 | 1.7E+15 ohms cm

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