

NuSil MED4-4220

Silicone

NuSil Technology

Message:

NuSil Technology's restricted materials may be considered for use in short-term implant applications, 29 days or less, or for external applications. Low consistency elastomers (LCEs) are useful alternatives to liquid silicone rubber (LSR) and high consistency rubber (HCR) for end users who need a low viscosity elastomer which provides other unique properties. LCEs lend themselves to applications that require a pourable, self-leveling silicone. Applications include: encapsulating a device, backfilling a void, potting an electronic component that cannot withstand exposure to high heat, or prototyping a mold. Comments: LOW VISCOSITY

| General Information | | |
|-----------------------------|------------------------------------|--------|
| Features | Good Processability | |
| | Low Viscosity | |
| Uses | Electrical/Electronic Applications | |
| | Medical/Healthcare Applications | |
| Agency Ratings | USP Class VI | |
| Appearance | Clear/Transparent | |
| Processing Method | Encapsulating | |
| | Potting | |
| Thermoset | Nominal Value | Unit |
| Thermoset Components | | |
| Part A | Mix Ratio by Weight: 1.0 | |
| Part B | Mix Ratio by Weight: 1.0 | |
| Additional Information | Nominal Value | Unit |
| Cure System | Platinum | |
| Uncured Properties | Nominal Value | Unit |
| Viscosity | | |
| -- 1 | 18 | Pa · s |
| -- 2 | 23 | Pa · s |
| Curing Time (150°C) | 0.25 | hr |
| Pot Life (25°C) | 25 | min |
| Cured Properties | Nominal Value | Unit |
| Shore Hardness (Shore A) | 17 | |
| Tensile Strength | 4.45 | MPa |
| Tensile Elongation at Break | 570 | % |
| Tear Strength | 6.13 | kN/m |
| NOTE | | |
| 1. | Part B | |

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