

## Sylmasta PU21 BLACK

Sets to a hard polyurethane rubber, suitable for creating replacement components, including rubber couplings, and is also used as a high performance general-purpose electrical encapsulant. Thanks to unique formulation and manufacturing methods, PU21 has none of the problems usually associated with filled resin systems such as sedimentation and moisture sensitivity.

PU21 has an excellent, glass-like finish and is very low in viscosity resulting in a resin system which is flame retardant, has excellent adhesion properties, low stress thermal cycling characteristics whilst still retaining the flow properties necessary to fill intricate units.

PU21 is uniquely developed for fast-paced production environments in order to reduce the production cost without sacrificing important physical properties.

### Description

- Black Polyurethane Casting & Potting Compound
- Sets to Hard Rubber
- Black
- Room Temperature Cured
- Two Part 100A:22B by weight
- Potlife 5min
- Initial Cure 3min
- Full cure 2hrs.
- Fast Cure
- Low viscosity
- Low moisture sensitivity
- Glass-like finish
- Excellent adhesion
- Thermally Conductive
- Excellent electrical properties
- Low stress thermal cycling
- Excellent chemical stability

### Technical Data

A selection of typical properties are listed below for the different combinations

Viscosity (25°C) mPa.s	800-1200
Density (25°C) g/cm <sup>3</sup>	1.28 - 1.32
Gel Time(200g, 125°C) Min	5
No Flow Time(25°C) Min	6-7
Tack Free Time (25°C) Min	30
Min. Cure Time (25°C) Hr	2
Full Cure Time(25°C) Hr	24
Shore hardness (A) 7 days @ 25°C	88 – 92
Shore hardness (D)	48 – 52
Dielectric strength kV/mm	33
Volume resistivity(100°C ohms/cm)	20 x 10 <sup>10</sup>
Flame retardancy	Yes

### Storage

Should be stored in a cool dry place in original containers. Part A and B are both moisture sensitive so the lids must be kept on tightly. If stored correctly in original sealed containers should have a shelf life of at least 6 months.