

# Specification Sheet

Strategic need for Indian industry

Stock No: NS6130-09-915, CAS: 25038-59-9

|                        |   |                                 |
|------------------------|---|---------------------------------|
| <b>Product</b>         | : | <b>Shape Memory Polymer</b>     |
|                        |   | <b>Molding</b>                  |
| Physical Form Pellets  | : | (Injection Moulding Capability) |
| Glass Transition temp  | : | 65°C                            |
| Melting Temp           | : | 200°C                           |
| Specific Gravity       | : | 1.25                            |
| Temperature Stability  | : | 300°C                           |
| Tensile Strength       | : | ~13Mpa (Rubber Region)          |
| Elongation             | : | >600%                           |
| Bending Modulus        | : | 1900 (Glassy Region)            |
| Bending Strength       | : | 50MPa (Glassy Region)           |
| Potting Type           | : | (PMP)                           |
| Colour Tone            | : | Light Yellow                    |
| A/B Weight Ratio       | : | 40/60                           |
| Viscosity Sol A        | : | 360                             |
| Viscosity Sol B        | : | 300                             |
| Specific Gravity Sol A | : | 1.062                           |
| Specific Gravity Sol B | : | 1.215                           |
| Strength               | : | G/R                             |
| Bending Strength       | : | 75 Mpa                          |
| Bending Modulus        | : | 1800 Mpa                        |
| Tensile Strength       | : | 52 Mpa                          |
| Elongation             | : | 10-30                           |
| Hardness               | : | 80 (Shore D)                    |
| Strength               | : | R/R                             |
| Tensile Modulus        | : | 20Mpa                           |
| Tensile Strength       | : | >400Mpa                         |

|                              |   |                   |
|------------------------------|---|-------------------|
| Elongation                   | : | 4.5Mpa            |
| Hardness                     | : | 40%               |
| Glass Transition Point       | : | 55°C              |
| Pot Life (Standard)          | : | 180Sec            |
| Cure Temp (?×time)           | : | 70°C for 1-2Hours |
| Injection Extrusion          | : | 20Kg Bag          |
| <b>Main Inspect Verifier</b> | : | <b>Manager QC</b> |

**Note:** Product Specification are subject to amendment and may change over time



## Characterization of Strategic need for Indian industry



## Anti Counterfeiting Solutions in India

