

# Specification Sheet

Shape Memory Polymer Pellet PMM

(Injection Extrusion)

Stock No: NS6130-09-910, CAS: 25038-59-9

|                        |   |                             |
|------------------------|---|-----------------------------|
| <b>Product</b>         | : | <b>Shape Memory Polymer</b> |
|                        |   | <b>Molding</b>              |
| Stock No               | : | NS6130-09-910               |
| CAS                    | : | 25038-59-9                  |
| Glass Transition temp  | : | 55°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)       |
| 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        | : | 20 Mpa                      |

|                              |   |                   |
|------------------------------|---|-------------------|
| Tensile Strength             | : | >400 Mpa          |
| Elongation                   | : | 4.5 Mpa           |
| Hardness                     | : | 40%               |
| Glass Transition Point       | : | 55°C              |
| Pot Life (Standard)          | : | 180Sec            |
| Cure Temp (?×time)           | : | 70°C for 1-2Hours |
| Injection Extrusion          | : | 20 Kg Bag         |
| <b>Main Inspect Verifier</b> | : | <b>Manager QC</b> |

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



## Characterization of Shape Memory Polymer Pellet PMM



Shape Memory Polymer Pellet PMM

