

## TSE Industries Millathane® 76 Millable Polyester Polyurethane Rubber, 1.0 PHR MBT

**Category :** Polymer , Thermoset , Polyester, TS , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Millathane® 76 is a very suitable choice for use in products such as bushings, small copier rolls; automotive applications – bumpers, o-rings, hydraulic seals, belts, gaskets, solid tires – and many other high performance polyurethane applications. Millathane 76 can be vulcanized by sulfur or peroxide cured systems. The combination of thiazole accelerators, MBTS and MBT, enable the best possible cure for Millathane® 76. An increase in MBTS results in a higher state of cure and increased processing safety. An increase in MBT decreases scorch time and increases the state of cure. All information provided by TSE Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_TSE-Industries-Millathane-76-Millable-Polyester-Polyurethane-Rubber-10-PHR-MBT.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-76-Millable-Polyester-Polyurethane-Rubber-10-PHR-MBT.php)

| Mechanical Properties   | Metric                                          | English                                        | Comments |
|-------------------------|-------------------------------------------------|------------------------------------------------|----------|
| Hardness, Shore A       | 67                                              | 67                                             |          |
| Tensile Strength, Yield | 32.8 MPa                                        | 4750 psi                                       |          |
| Elongation at Yield     | 575 %                                           | 575 %                                          |          |
| 100% Modulus            | 0.00348 GPa                                     | 0.505 ksi                                      |          |
| 200% Modulus            | 0.00793 GPa                                     | 1.15 ksi                                       |          |
| 300% Modulus            | 0.01403 GPa                                     | 2.035 ksi                                      |          |
| Tear Strength           | 61.3 kN/m                                       | 350 pli                                        | Die C    |
| Compression Set         | 38 %<br>@Temperature 70.0 °C,<br>Time 79200 sec | 38 %<br>@Temperature 158 °F,<br>Time 22.0 hour |          |

| Processing Properties | Metric                          | English                            | Comments |
|-----------------------|---------------------------------|------------------------------------|----------|
| Cure Time             | 4.40 min<br>@Temperature 155 °C | 0.0733 hour<br>@Temperature 311 °F | ts2      |
|                       | 10.0 min<br>@Temperature 155 °C | 0.167 hour<br>@Temperature 311 °F  | TC90     |

## Contact Songhan Plastic Technology Co.,Ltd.

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