

## TSE Industries Millathane® 76 Millable Polyester Polyurethane Rubber, No Plasticizer

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. Plasticizers should be used in all Millathane®76 compounds to better incorporate fillers and improve processing. Some plasticizers are not compatible with Millathane76, e.g. naphthenic and all paraffinic oils, however, a number of ester plasticizers perform very well. Formulation Millathane 76 100.0 Zinc Stearate 0.5N-550 Black 40.0 MBTS 4.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 1.5 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-No-Plasticizer.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-76-Millable-Polyester-Polyurethane-Rubber-No-Plasticizer.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	
	82	82	heat aged 70 hours @ 100°C
Tensile Strength, Yield	25.19 MPa	3653 psi	
Elongation at Yield	490 %	490 %	
100% Modulus	0.00552 GPa	0.801 ksi	
200% Modulus	0.01275 GPa	1.849 ksi	
300% Modulus	0.01904 GPa	2.761 ksi	
Tear Strength	63.0 kN/m	359 pli	Die C
	32.3 %	32.3 %	
Compression Set	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-35.0 °C	-31.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	8.00 min	0.133 hour	
	@Temperature 155 °C	@Temperature 311 °F	

Descriptive Properties	Value	Comments
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Descriptive Properties

Value

Comments<sup>70 hours @ 100°C</sup>

## Contact Songhan Plastic Technology Co.,Ltd.

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