

TSE Industries Millathane® 76 Millable Polyester Polyurethane Rubber, 10.0 PHR TP-95 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 0.5 N-550 Black 40.0 MBTS 4.0 MBT 2.0 Thanecure® ZM 1.0 Sulfur 1.5 Plasticizer 10.0 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-100-PHR-TP-95-Plasticizer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	63	63	
	70	70	heat aged 70 hours @ 100°C
Tensile Strength, Yield	23.39 MPa	3393 psi	
Elongation at Yield	542 %	542 %	
100% Modulus	0.00274 GPa	0.398 ksi	
200% Modulus	0.00654 GPa	0.948 ksi	
300% Modulus	0.01127 GPa	1.634 ksi	
Tear Strength	59.7 kN/m	341 pli	Die C
Compression Set	44.2 % @Temperature 70.0 °C, Time 79200 sec	44.2 % @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	10.0 min @Temperature 155 °C	0.167 hour @Temperature 311 °F	

Descriptive Properties	Value	Comments
Weight Loss (%)	1.9	heat aged 70 hours @ 100°C

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