

TSE Industries Millathane® 76 Millable Polyester Polyurethane Rubber, 10.0 PHR TP-759 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® ZM1.0 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-759-Plasticizer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	
	70	70	heat aged 70 hours @ 100°C
Tensile Strength, Yield	22.28 MPa	3232 psi	
Elongation at Yield	560 %	560 %	
100% Modulus	0.00243 GPa	0.353 ksi	
200% Modulus	0.00645 GPa	0.936 ksi	
300% Modulus	0.01104 GPa	1.601 ksi	
Tear Strength	51.0 kN/m	291 pli	Die C
Compression Set	50 %	50 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	11.0 min	0.183 hour	
	@Temperature 155 °C	@Temperature 311 °F	

Descriptive Properties	Value	Comments
Weight Loss (%)	1.6	heat aged 70 hours @ 100°C

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