

TSE Industries Millathane® 28 Millable Polyester Polyurethane Rubber

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

Material Notes:

Millathane 28 has excellent resistance to gas (e.g., nitrogen) permeability as well as very good abrasion resistance and low temperature properties. This polyurethane rubber was designed for automotive applications such as shock absorbers, seals, gaskets, bushings, boots, and hoses. Example Formulation Millathane 28 100.0 Stearic Acid 0.3 N990 Black 20.0 Struktol WB2221.0 Low Melt Polyethylene 1.0 TAC 0.5 DBPH 50% 4.0 All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-28-Millable-Polyester-Polyurethane-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	
Mooney Viscosity	30 - 60 @Temperature 100 °C	30 - 60 @Temperature 212 °F	ML(5+4), preliminary
Permeability	3.2e-8	3.2e-8	Gas, N2; 80°C, 345kPa; cm ² /sec-atm; Formulation Example; Press Cure 7'/177°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	Formulation Example; Press Cure 7'/177°C
Tensile Strength, Yield	27.3 MPa ≤ 27.6 MPa	3960 psi ≤ 4000 psi	Formulation Example; Press Cure 7'/177°C
Elongation at Break	446 %	446 %	Formulation Example; Press Cure 7'/177°C
100% Modulus	0.00220 GPa	0.319 ksi	Formulation Example; Press Cure 7'/177°C
200% Modulus	0.00530 GPa	0.769 ksi	Formulation Example; Press Cure 7'/177°C
300% Modulus	0.0133 GPa	1.93 ksi	Formulation Example; Press Cure 7'/177°C
Tear Strength	≤ 22.6 kN/m ≤ 35.0 kN/m	≤ 129 pli ≤ 200 pli	Die C; Formulation Example; Press Cure 7'/177°C
Compression Set	7.2 % @Temperature 80.0 °C, Time 79200 sec	7.2 % @Temperature 176 °F, Time 22.0 hour	Formulation Example; Press Cure 7'/177°C

Processing Properties	Metric	English	Comments
Cure Time	5.00 - 20.0 min	0.0833 - 0.333 hour	for compression molded lab sheets
Shelf Life	12.0 Month	12.0 Month	under dry and cool conditions

Descriptive Properties	Value	Comments
Abrasion Resistance	Very good	
Appearance	Pale to light amber solid bale or milled sheets	
Bashore Resilience (%)	44	Formulation Example; Press Cure 7'/177°C
DIN Abrasion (mm ³)	77.4	Loss; Formulation Example; Press Cure 7'/177°C
Odor	Faint, characteristic	
Ozone Resistance	Excellent	
Package Weight (lbs)	50	
Resilience	40-45%	

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