



TSE Industries, Inc.
Millathane® Millable Polyurethane Division
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Millathane® 55

A **NEW** Polyether Millable Polyurethane for Roll Coverings and Molded Parts

Unique Features

- Low Mooney Viscosity
- Excellent physical properties

Applications

- Rubber Covered Rollers
- Molded mechanical goods

Typical Polymer Properties

	Typical	Range
Mooney Viscosity, ML(1+4)/100°C	35	± 10
Specific gravity	1.04	—

Typical Compound Properties

Millathane® 55	100
Zinc Stearate	0.5
Ultrasil VN3	45
Silquest A-189	1
Carbowax 3350	2
DBEEA (TP-95)	3
Struktol WB222	1
AC 617A Polyethylene	2
MBTS	4
MBT	2
Thanecure® ZM	1
RMS-80 (80% sulfur dispersion)	2.5
Physical Properties, Press Cure 11 min/160° C (320°F)	
Hardness, Shore A	83
100% Tensile Stress ('Modulus'), psi/MPa	695/4.8
300% Tensile Stress ('Modulus'), psi/MPa	2410/16.6
Tensile Strength, psi/MPa	4250/29.3
Elongation, %	485
Tear, Die C, lb/in / kN/m	271/47.4
Tear, Die B, lb/in / kN/m	440/77.0
Bashore Resilience*, %	43
DIN Abrasion*, mm ³ loss	57

*thicker samples cured 16 min/160°C

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