Millathane® CM Formulation

With Good Low Temperature Properties

Millathane® CM	100.00	100.00
Zinc Stearate	0.75	0.75
N-774 Black	50.00	75.00
DOS		25.00
AC Poly 617A	1.00	1.00
MBTS	2.00	2.00
MBT	1.00	1.00
Thanecure® ZM	0.75	0.75
Sulfur	1.50	1.50
	157.00	207.00

PHYSICAL PROPERTIES Press cured 15'/155°C (311°F)

Hardness, Durometer A	74	73
Tensile Strength, psi	3364	3190
Tensile Strength, MPa	23.2	22.0
Elongation, %	540	610

Gehman Torsional Modulus MPa

+20°C	3	3
-30°C	14	12
-40°C	30	12
-50°C	176	20
-60°C	401	50
-65°C	507	99

Observations:

The addition of 25 parts of DOS (dioctyl sebacate), plus an additional 25 parts of N-774 black to keep the hardness constant, significantly improved the low temperature stiffening of this Millathane CM compound. Tensile strength and elongation were comparable to the control.

Ref: Gehman Torsional Modulus.xls

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