


Under the hood or across the floor, MNM is the perfect sleeving product for protecting and improving the appearance of wires and cables. The high coverage sleeving meets or exceeds military specifications A-A-59301. MNM is highly resistant to abrasion, cuts, common automotive and marine chemicals, UV damage, and vibration. It will not rot or retain moisture. The wide operating temperature range allows MNM to protect delicate wiring in engine compartments and near exhaust systems.



- Dense, Full Coverage Construction
- Economical and Easy to Install
- Cut and Abrasion Resistant
- Soft, Pliable, & Quiet
- Halogen Free
- Resists Gasoline & Engine Chemicals
- Wide Operating Temperature Range
- Colour: black



TYPE	COLOUR
MNM 0.75 BK .22	
NW	PÙ

	Melt Point
	ASTM D-2117 493°F (256°C)
	Maximum Continuous
	Mil-I-23053 302°F (150°C)
	Minimum Continuous
	-49°F (-45°C)



Specifications are subject to change without notice

Order Number	Nominal Width	Wall Thickness		Weight		Standard Spool Put-Ups	
	(NW)	(mm)	(in)	Kg/100m	Lbs/100'	(M)	(F)
MNM0.13BK.65	1/8"	0.76	0.030	0.49	0.33	65	225
MNM0.19BK.60	3/16"	0.76	0.030	0.83	0.56	60	200
MNM0.25BK.60	1/4"	0.76	0.030	1.18	0.79	60	200
MNM0.31BK.38	5/16"	0.76	0.030	1.47	0.99	38	125
MNM0.38BK.38	3/8"	0.76	0.030	1.62	1.09	38	125
MNM0.50BK.30	1/2"	0.76	0.030	2.59	1.74	30	100
MNM0.63BK.22	5/8"	1.02	0.040	4.24	2.85	22	75
MNM0.75BK.22	3/4"	1.02	0.040	4.69	3.15	22	75
MNM0.88BK.15	7/8"	1.02	0.040	6.47	4.35	15	50
MNM1.00BK.15	1"	1.27	0.050	7.66	5.15	15	50
MNM1.25BK.15	1 1/4"	1.27	0.050	8.18	5.50	15	50
MNM1.50BK.15	1 1/2"	1.52	0.060	9.61	6.46	15	50
MNM1.75BK.15	1 3/4"	1.52	0.060	11.50	7.73	15	50
MNM2.00BK.15	2"	1.52	0.060	13.41	9.01	15	50
MNM2.50BK.15	2 1/2"	1.52	0.060	15.36	10.32	15	50
MNM3.00BK.15	3"	1.52	0.060	16.37	11.00	15	50

Abrasion Test Data

- Abrasion resistance: **Extremely high**
- Abrasion test machine: **Taber 5150**
- Abrasion test wheel: **Calibrase H-18**
- Abrasion test load: **500g**
- Room temperature: **70°F**
- Humidity: **58%**
- Much Pulling of Fibers Very Visible Wear: **20 test cycles**
- Wear Pattern Continues: **900 test cycles**
- Wear Pattern Continues: **1,400 test cycles**
- Hole Completely Through Material Destroyed: **3,200 test cycles**
- Pre-test weight: **11,759.5 mg**
- Post-test weight: **10,990.2 mg**
- Test end loss of mass point of destruction: **769.3 mg**

Physical Properties

- Monofilament diameter: **N/A**
- Flammability rating: **N/A**
- Recommended cutting: **Hot Knife**
- Colours: **1**
- Wall thickness: **.03-.06**
- Specific gravity *ASTM D-792*: **1.14**
- Moisture absorption% *ASTM D-570*: **2.5**
- Hard vacuum data *ASTM E-595 at 10-5 torr*:
TML **1.10**
CVCM **.01**
WVR **.69**
- Smoke D-Max *ASTM E-662*: **N/A**
- Outgassing: **High**
- Oxygen index *ASTM D-2863*: **22**

MNM - Chemical Resistance Index

Severely Affected	More Affected	Affected	Little Effect	No Effect
3	4	5	2	1
Aromatic Solvents				
Aliphatic Solvents				
Chlorinated Solvents				
Weak Bases				
Salts				
Strong Bases				
Salt Water 0-S-1926				
Hydraulic Fluid MIL-H-5606				

Severely Affected	More Affected	Affected	Little Effect	No Effect
3	4	5	2	1
Lube Oil MIL-L-7808				
De-Icing Fluid MIL-A-8243				
Strong Acids				
Strong Oxidants				
Esters/Ketones				
UV Light				
Petroleum				
Fungus ASTM G-21				