

## 3M Scotch® 31 Heavy Duty Mining Tape

Category : Polymer , Adhesive

### Material Notes:

Scotch® Heavy Duty Mining Tape 31 has a tough, abrasion-resistant backing for jacket repair on mining cables. Due to extremely abrasive environment, the original jacket on the cable gets damaged often and needs to be repaired. The tape is flexible, and the self-healing property of the mastic helps keep out moisture. Scotch® Mining Tape 31 is approved by MSHA (Mining Safety & Health Administration) as the out jacketing of the 3M™ Mining Cable Splice Kits 3100 Series. The tape is printed with MSHA logo. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-31-Heavy-Duty-Mining-Tape.php](http://www.lookpolymers.com/polymer_3M-Scotch-31-Heavy-Duty-Mining-Tape.php)

Physical Properties	Metric	English	Comments
Water Absorption	0.50 %	0.50 %	ASTM D570
Water Vapor Transmission	0.380 g/m <sup>2</sup> /day	0.0245 g/100 in <sup>2</sup> /day	37.8°C at 100% RH; ASTM D1249
Thickness	1520 microns	60.0 mil	ASTM D4325

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ASTM D2240
Tensile Strength at Break	16.5 MPa	2390 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
Tear Strength	34.3 kN/m	196 pli	ASTM D624
Peel Strength	0.153 kN/m	0.875 pli	Adhesion to Neoprene; ASTM D1000
	0.93128 kN/m	5.3125 pli	Adhesion to PVC; ASTM D1000
	1.1723 kN/m	6.6875 pli	Adhesion to CSM; ASTM D1000
	1.23 kN/m	7.00 pli	Adhesion to PE; ASTM D1000
	1.75 kN/m	10.0 pli	Adhesion to Steel; ASTM D1000
Taber Abrasion, mg/1000 Cycles	0.050	0.050	[g], H22 wheel, 250 g

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149

Descriptive Properties	Value	Comments
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Appearance Descriptive Properties	Black Value	Comments
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**Contact Songhan Plastic Technology Co.,Ltd.**

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