



## BLACK UHMW TAPE

### BLACK UHMW Pressure Sensitive Adhesive Tape/BLACK UPE Tape

ESONE'S UPE tape is made from BLACK ultra-high molecular weight polyethylene (BLACK UHMH) film with a molecular weight exceeding 9 million, coated with either acrylic pressure-sensitive adhesive or rubber adhesive.

#### Advantages

ESONE black UPE tape offers excellent abrasion resistance and a low coefficient of friction, making it an ideal protective layer for wear surfaces. It is resistant to UV embrittlement, suitable for outdoor applications. The high-temperature, high-tack acrylic adhesive is designed for high shear resistance and adheres well to most dry, clean surfaces.

#### Specification

The standard widths for the rolls are 290 mm, 610 mm, and others, with lengths customizable as per requirements. The rolls can be slit to any desired width. This tape is backed with a PE release liner, which protects the adhesive and makes it easy to use.

#### Applications

ESONE black UHMW film tape provides an abrasion-resistant, anti-stick, and anti-friction surface at temperatures up to 107°C. It is commonly used to protect high-speed line chutes and conveyors, particularly in applications requiring UV and static resistance.



Protect high-speed line chutes and conveyors



Provide UV-resistant and static-resistant self-lubricating surface

## UPE Tape Properties

Model Name	UPE13B	UPE25B	UPE30B	UPE50B
Backing Material	Black UHMW Film	Black UHMW Film	Black UHMW Film	Black UHMW Film
Adhesive Type	Acrylic	Acrylic	Acrylic	Acrylic
Total Thickness mm(mil)	0.18(7)	0.30(12)	0.35(13.5)	0.55(21.5)
Basic Thickness mm(mil)	0.13(5)	0.25(10)	0.30(12)	0.50(20)
Adhesion to Steel N/cm(lb/in)	4.9(45)	5.5(50)	5.5(50)	5.5(50)
Tensile Strength N/cm(lb/in)	70(40)	140(80)	140(80)	254(145)
Elongation (% at break)	350	425	425	500
Operating Temperature °C(°F)	-40 to +107 (-40 to +225)	-40 to +107 (-40 to +225)	-40 to +107 (-40 to +225)	-40 to +107 (-40 to +225)
Colour	Black	Black	Black	Black
Density(UHMW Film) g/cm³(lb/ft³)	0.96(60)	0.96(60)	0.96(60)	0.96(60)
Surface Resistivity (ohms/in²)	10 <sup>6</sup> to 10 <sup>9</sup>	10 <sup>6</sup> to 10 <sup>9</sup>	10 <sup>6</sup> to 10 <sup>9</sup>	10 <sup>6</sup> to 10 <sup>9</sup>



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