



## UHMW TAPE

### UHMW Pressure Sensitive Adhesive Tape /UPE Tape

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

### Advantages

**ESONE** UHMW tape exhibits excellent abrasion resistance and has a low coefficient of friction, making it an ideal protection for surfaces or bearings that experience heavy wear. Additionally, **ESONE** UPE tape is more economical than PTFE tapes. The high-tack rubber adhesive adheres readily to most dry, clean surfaces, firmly anchoring the product in place, even in the high heat ranges noted in this data sheet.

### 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** UPE tapes are ideal for creating an abrasion-resistant, anti-stick, and anti-friction surface at temperatures up to 107°C (225°F). They are commonly used to line chutes like spray booth liners, tank or bin liners, flat conveyor guide rails and chutes. Additionally, UHMW film tape is frequently applied to guide rails in glass bottling plants to reduce noise levels. This tape is also effective for replacing desk drawer bearings, ensuring smooth and friction-free drawer movement.



Reduce noise levels in glass bottling plants



Applying tape to guide rails reduces friction



Replace desk drawer bearing



Protecting wear-resistant areas



Ensures smooth movement of components in automotive

## UPE Tape Properties

Model Name	UPE8W	UPE13W	UPE25W	UPE50W
Backing Material	UHMW Film	UHMW Film	UHMW Film	UHMW Film
Adhesive Type	Acrylic	Acrylic	Acrylic	Acrylic
Total Thickness mm(mil)	0.13(5)	0.18(7)	0.30(12)	0.55(21.5)
Basic Thickness mm(mil)	0.08(3)	0.13(5)	0.25(10)	0.50(20)
Adhesion to Steel N/cm(lb/in)	3.8(35)	4.9(45)	5.5(50)	5.5(50)
Tensile Strength N/cm(lb/in)	35(20)	70(40)	140(80)	254(145)
Elongation (% at break)	300	350	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	Natural	Natural	Natural	Natural
Density(UHMW Film) g/cm <sup>3</sup> (lb/ft <sup>3</sup> )	0.96(60)	0.96(60)	0.96(60)	0.96(60)



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