

3M CLEAR PROTECTIVE TAPE

PROTECTS

- No scratches
- No contamination

PREVENTS

- Cross contamination
- Damage to coating equipment

PROMOTES

- Coating uniformity
- Coating adhesion

Utilizing 3M's expertise in analyzing the surface composition, taped and non taped lenses were compared.

- Taped lenses maintained their surface composition.
- Non-Taped lenses contained additional chemistries on their surface compositions such as: hydrocarbons - (oil, wax, etc.), silicone, aluminum, sulfur and sodium.

Chemical Analysis of CR-39® Lens Surface

NON-ALLOY BLOCKING

	<u>CONTROL</u>	<u>TAPED</u>	<u>NON-TAPED</u>
	(Before processing)	(After processing)	(After processing)
Carbon	84%	84%	*88%
Oxygen	14%	13%	3%
Nitrogen	2%	3%	1%
Silicone	-	-	*3%
Aluminum	-	-	2%
Sulfur	-	-	2%
Sodium	-	-	1%

*** Hydrocarbon (wax) and silicone contamination will adversely affect wetting and adhesion of coatings applied to the lens surface.**

Chemical analysis by ESCA (Electron Spectroscopy Chemical Analysis)