OPX is a specialized nano-coating in the family of perfluoroethers supplied by Thin film Partners.

It is a robust and abrasion resistant, high performance PFPE formulated with Silane, that provides a very long-lasting, optically clear, hydrophobic thin film.

OPX can be applied to virtually any surface. This includes metal, glass and plastic. Applied at less than a micron in thickness, the OPX chemically bonds to a pre-treated surface by attaching to any available hydroxyl group.

OPX occupies a unique niche where it performs extremely similarly to PTFE with its low surface energy. However, OPX differs from PTFE in that it also provides a robust protective finish that can withstand prolonged abrasive force.

These properties are especially valuable in industrial parts as well as consumer goods. Its uses include sectors like tablets, mobile phones, and other screen technologies where there is a need to repel water, prevent fingerprint smudges and resist scratches.

Features

- A low surface energy sub-micron film with a high contact angle in water (>110°)
- Optically transparent and colorless film
- Anti-scratching and anti-smudging properties are ideal for coating glass, LCDs, optical filters, touch-panel displays, LCD, optical filters and lenses
- OPX can withstand 10,000 rubs with steel wool (force=1lb per square inch)
- Applied either dipped or sprayed
- OPX does not add any measurable dimensions to coated products