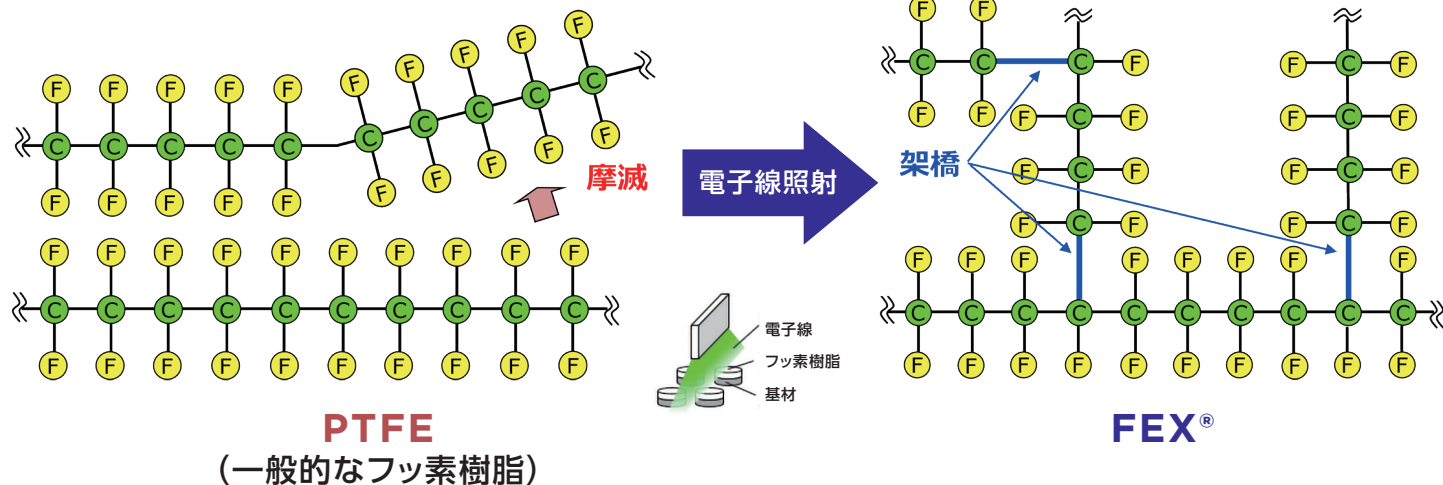


架橋フッ素樹脂FEX[®] フェックス

製品の概要

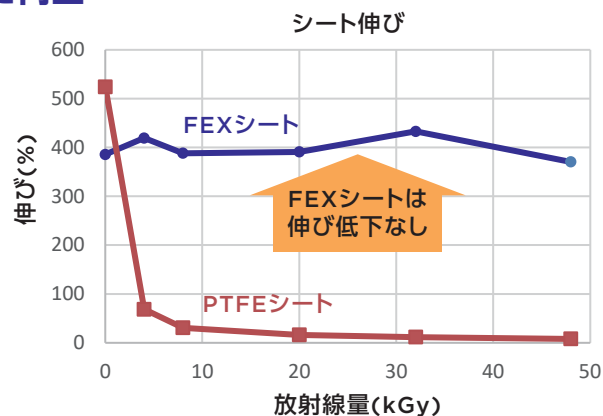
独自の電子線照射技術でフッ素樹脂を架橋



製品の特長

フッ素の特長を維持しながら、**耐摩耗性と耐放射線性を向上**

	PTFE	FEX [®]	特記
耐放射線性	×	◎	右写真参照
耐摩耗性	×	◎	1,000倍以上*
非粘着性	◎	◎	フッ素 本来の特長
滑り性	◎	◎	
耐薬品性	◎	◎	
耐熱性	○	○	



製品形態



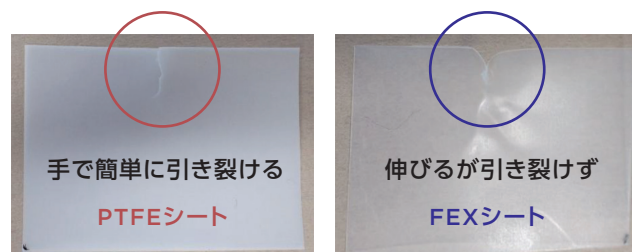
①シート(テープ)

プライマーなしで接着可能
(接着剤)

FEXコーティング
(50μm程度)

金属基材
(SUS、AL等)

②コーティング



製品用途・活用事例

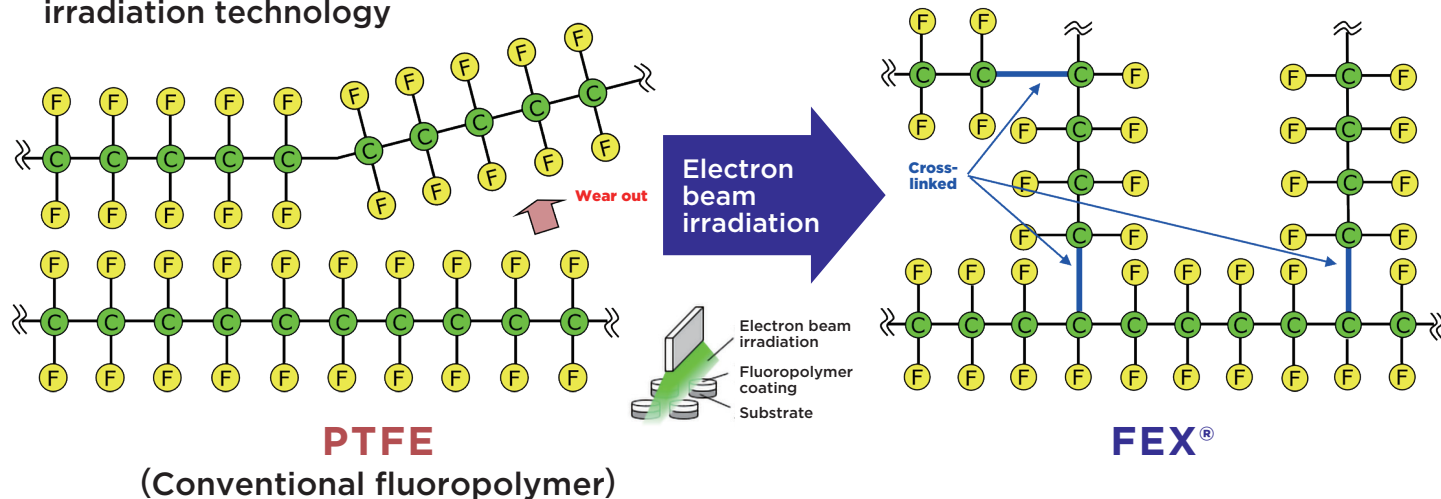
- フッ素樹脂特長(耐薬品性/非粘着性等)と耐放射線性/耐摩耗が必要な用途 ⇒ 宇宙関連
- 具体例: 軸受け、バルブ、スライダー等

*詳細情報は、ホームページで確認ください: <https://sumitomelectric.com/jp/products/fex>

FEX™ Cross-linked Fluoropolymer

Overview

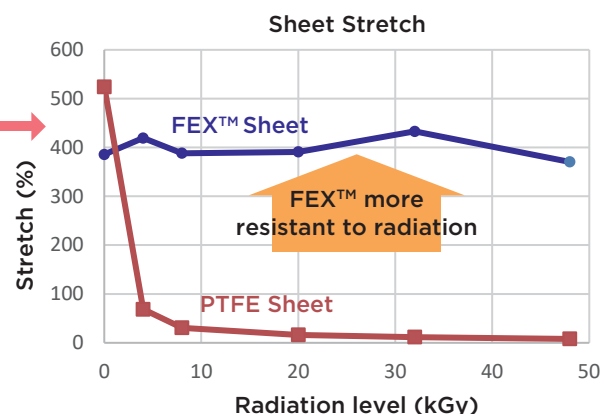
- FEX™ is a **fluoropolymer cross-linked** by Sumitomo's proprietary electron beam irradiation technology



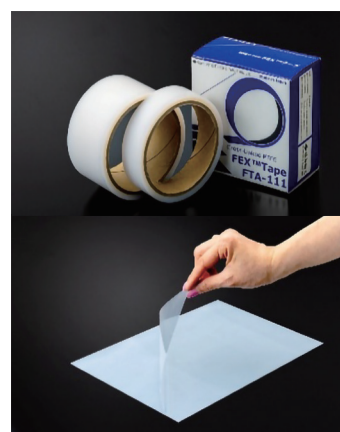
Features

- FEX™ offers exceptional **resistance to wear and radiation** while retaining its original fluoropolymer properties

	PTFE	FEX®	特記
Radiation resistance	×	◎	See data
Wear resistance	×	◎	FEX outperforms PTFE by 1000x
Non-stick	◎	◎	Material properties of FEX are identical to PTFE
Sliding	◎	◎	
Chemical resistance	◎	◎	
Heat resistance	○	○	



Lineup & Applications



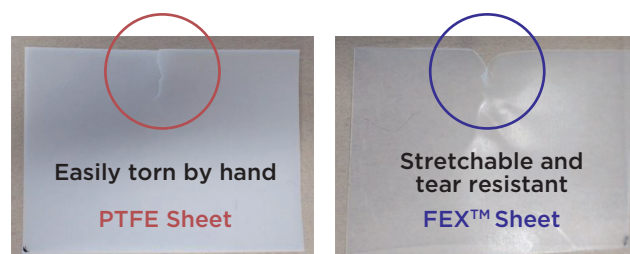
Adhesive tape

Coated directly on substrate
(primer layer not needed)

FEX™ Coating
(Approx. 50μm)

Metal substrate
(SUS, Al, etc.,)

Coating



High resistance to wear and radiation

Applications

- Aerospace products

Examples: Bearings, Valves, Sliders

- Semiconductor manufacturing machines