

高耐久性摺動材 架橋ふっ素樹脂 エクセロン®

High Durability Sliding Materials Exeron® (cross-linked fluoropolymer)

低摩擦、高耐久のため、長寿命化、省メンテ、組付け製品の高性能化が期待

Low friction and high durability are expected to extend service life, reduce maintenance, and improve performance of products used.



概要 Overview

- ・エクセロン®は、当社独自の製法により、PTFEに架橋を施した画期的な新素材です。

Exeron® is a revolutionary new material made from cross-linked PTFE using our proprietary process.

- ・低摩擦で高耐久のため、長寿命化、省メンテ、組付け製品の高性能化に貢献

Exeron® contributes to longer life, less maintenance, and higher performance of assembled products due to its low friction and high durability..

用途 Applications

摺動用途のふっ素樹脂製品全般

Fluoropolymer products for sliding applications in general

例) 化学、分析、半導体、食品製造装置用
シール、コーティング

Seals and coatings for chemical, analytical, semiconductor, and food manufacturing equipment

特徴 Feature

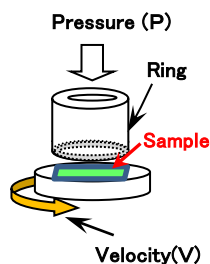
- ・低摩擦で耐久性がふっ素樹脂 (PTFE) の1,000倍以上*に向上 *当社評価比
Exeron® is low-friction and more than 1,000 times* more durable than fluoropolymer (PTFE). *Compared to our evaluation
- ・耐摩耗性を有する唯一のノンフィラタイプのふっ素樹脂 (注: フィラタイプもあり)
Exeron® i is the only non-filler type fluoropolymer with abrasion resistance. (Note: Filler type is also available)
- ・摩耗 (摩耗粉の発生) が少ないため、要クリーンや難メンテナンス環境下で有効です。
Exeron® is particularly effective in clean and difficult-to-maintain environments due to its low wear (generation of wear debris).

比較 Comparison of Exeron and PTFE

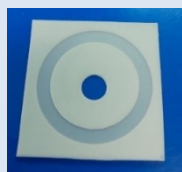
10分後のサンプルの状態

Sample condition after 10 minutes (P: 0.2MPa, V: 128m/min)

摺動試験
Sliding test
【 Ring-on-disk method 】

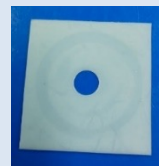


【 PTFE 】



摩耗粉多発
Abrasive dusts
occur frequently

【 エクセロン® (Exeron®) 】



摩耗粉は微少 (確認出来ず)
Wear dust is very small
(cannot be confirmed).

問合せ窓口

株式会社プロテリアル

電線事業部

東京都江東区豊洲5-6-36 豊洲プライムスクエア

