

Solvent-based Fluoropolymer coating POLYFLON PTFE TC-7109BK

 TECHNICAL
DATASHEET

Solvent-based PTFE coating for low friction.

Introduction

- POLYFLON PTFE TC-7100 grade is a solvent-based PTFE coating.
- POLYFLON PTFE TC-7109BK makes a black coating layer displaying low friction and excellent wear resistance.
- It is good for sliding component.

Characteristics

Film appearance	Solid content [mass%]	Specific gravity of coating	Viscosity (Ford Cup #4) (sec.)(25°C)
Black	21	1.04	29

Characteristics of the coating film

Items	Unit	Data	Method of measurement
Maximum temperature	°C	220	
Wear resistance Taber abrasion(25°C)	mg/1000 rounds	12 – 20	CS-17、1kgf、1000 rounds
Sliding abrasion	mg/cm ²	0.1 – 0.2	With SUS23B、55.9kPa、2.3m/s、10 minutes
Friction coefficient		0.04 – 0.07	Bauden leben type, Steel ball 8mmφ, Linear velocity 0.27cm/s, Loading 1.0kg
Pencil hardness (25°C) (After immersed in boiled water for 500h)		3H H	Mitsubishi Uni
Contact angle (Water) (Hexadecane)	degree	102 – 106 49 – 52	Contact angle meter at 25°C
Chemical resistance Sulfuric acid Hydrochloric acid Nitric acid Sodium hydroxide Xylene		No change No change No change Not possible (Swelling) Not possible	for 16h at 25°C

Methanol		(Swelling) Not possible (Swelling)	
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* The numeric values above are typical and not guaranteed.

Handling method/Safety information

- Be sure to read the notes on SDS and labels before use.
- This product is intended for general industry, and therefore its adequacy and safety as a raw material for medical purposes cannot be guaranteed.

For more information, visit our website.

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