DAIKIN | Positively Innovative

Solvent-based Fluoropolymer coating
POLYFLON PTFE TD-7139BD

TECHNICAL DATASHEET

Solvent-based PTFE coating for low friction and conductivity.

Introduction

- POLYFLON PTFE TD-7139BD is a solvent-based PTFE coating.
- It makes a black coating layer displaying low friction and excellent wear resistance and conductivity.
- It is good for sliding component.

Characteristics

Film properties		Coating properties		
Color	Volume resistivity [Ω・cm]	Solid Content [mass%]	Specific gravity of coating	Viscosity [sec] (Ford Cup #4 at 25℃)
Black	20	18	1.03	21

Characteristics of the coating film

Items	Unit	Data	Method of measurement
Maximum temperature	℃	220	
Wear resistance Taber abrasion(25°C) Sliding abrasion	 mg/1000 rounds mg/cm^2	 12 – 20 0.1 – 0.2	CS-17、1kgf、1000 rounds 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℃) (After immersed in boiled water for 500h)		 3H H	Mitsubishi Uni
Contact angle (Water) (Hexadecane)	 Degree Degree	 102 – 106 49 – 52	Contact angle meter at 25°C
Chemical resistance Sulfuric acid Hydrochloric acid Nitric acid Sodium hydroxide Xylene Methanol	 No change No change No change Not possible (Swelling) Not possible (Swelling) Not possible (Swelling)		for 16h at 25°C

* 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.

tds-td-7139bd-E_ver02_Mar_2024