

Solvent-based Fluoropolymer coating POLYFLON PTFE TC-7409BK

 TECHNICAL
DATASHEET

Solvent-based PTFE coating for abrasion resistance with sintering at lower temperature.

Introduction

- POLYFLON PTFE TC-7400 grade is a solvent-based PTFE coating.
- POLYFLON PTFE TC-7409BK makes a black coating layer displaying hardness and abrasion resistance and hardness.
- It can be sintered at lower temperature (150 – 200°C).

Characteristics

Film appearance	Solid content [mass%]	Specific gravity of coating	Viscosity (Ford Cup #4) (sec.)(25°C)
Black	34	0.98	16

Characteristics of the coating film

Items	Unit	Data	Method of measurement
Maximum temperature	°C	160	
Wear resistance Taber abrasion(25°C)	mg/1000 rounds	25 – 35	CS-17、1kgf、1000 rounds
Sliding abrasion	mg/cm ²	0.2 – 0.3	With SUS23B、55.9kPa、2.3m/s、10 minutes
Friction coefficient		0.04 – 0.08	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	92 – 96 35 – 41	Contact angle meter at 25°C
Chemical resistance Sulfuric acid Hydrochloric acid Nitric acid Sodium hydroxide		No change No change No change No change	for 16h at 25°C

Xylene		Swelling 1.0%	
Methanol		No change	

* 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.

DAIKIN INDUSTRIES, LTD.

<https://www.daikinchemicals.com/>

tds-tc-7409bk-E_ver01_Mar_2018
Copyright (C) DAIKIN INDUSTRIES, LTD., 2018