

Technical Data Sheet – Non-stick coating P12001 (conducting, for metal)

Description:

P 12201 is a heat-resistant, abrasion-resistant powder film based on PFA which is used especially for intensively used abrasion-resistant applications with high temperature in industry. Prior to coating it is thermally or chemically degreased so that it is as free as possible from oxide layers.

The material is characterized by excellent non-stick as well as slip properties, whereas it withstands operating temperatures to more than 260°C. In order to develop the optimum properties, the coating is burned in with up to 400 °C. The product can be applied to any pre-treated, metallic surfaces.

After coating the surface of the part is slightly roughened and feels like wax.

Physical Properties

Color:	Black
Layer thickness:	30-50µm
Recommended operating temperature:	Long-term -40 to 250°C
Food authorization:	Yes, according to EG 1935/2004 and regulation CFR 21
Electrostatic discharge capacity:	< 108
Anti-sticking properties:	Very good against Hotmelt, baking goods, water-based varnish, foil, rubber
Chemical resistance:	Resistant against solvents, diluted acids, and alkaline solutions
Abrasion resistance:	resistant
Pencil hardness acc. to DIN EN 13523-4:	6B
Water contact angle:	110
Dynamic sliding friction coefficient:	0,16
Adhesion acc. to DIN EN ISO 2409:	GT0
Mandril bending test DIN EN ISO 1519:	2,5

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Typical Application Areas:

Coating frames

Application oriented pilot tests are strictly necessary!

All technical data are based on supplier's data and own examinations and experiences. They are not binding and do not oblige us to any guarantee. They are exclusively intended as information for technicians and application engineers at own risk.

Last updated: 08/2018

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