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IMPACT IMPEX

## Polytetrafluoro Ethylene (PTFE) Food Grade Coatings



**PTFE** (Polytetrafluoro Ethylene) **coatings** are two-coat (primer/topcoat) systems that has a successful application as non-stick coatings. PTFE non-stick coated products has highest operating temperature among any fluoropolymer, very low coefficient of friction, excellent abrasion resistance, and great chemical resistance. PTFE coatings can withstand a maximum of 600°F. The surface has a high lubricity property. PTFE coating is typically applied to a thickness of 1-2 mils.

### Benefits of Food Grade PTFE Coating:

1. **PTFE food grade coating** is an ideal non-stick surface that makes your product a more convenient choice. **PTFE coating** is very effective and prevents frustrating sticking which is common in cooking products. Some consumers looks specifically for a non-stick PTFE coating, which makes your product even more appealing.
2. **PTFE food grade coating** is **heat** and **water resistant**. The surface is easy to clean and water does not cause the coating to become saturated. In most cases, the surface can be quickly wiped clean or even rinsed to remove any remaining debris in seconds. **PTFE food grade coating** can also withstand temperatures of up to 600 °F (or 260 °C). This makes PTFE Coating great choice for cooking utensil and applications.
3. **Chemical resistance** is a concern for some food grade products. **PTFE coatings** are not affected by most chemicals found in its environment. If you are concerned about chemical contact, **Food Grade PTFE** is an excellent choice
4. The properties and capabilities of cooking utensils and products are greatly enhanced with the help of our **Food Grade PTFE coating**.

PHYSICAL	
Density (g/cm <sup>3</sup> )	2.16
Water Absorption, 24 hrs (%)	< 0.01
MECHANICAL	
Tensile Strength (psi)	3,900
Tensile Elongation at Break (%)	300
Flexural Strength (psi)	No break
Folding Endurance (cycles)	> 10 <sup>6</sup>
Flexural Modulus (psi)	72,000
Hardness, Shore D	D50
IZOD Notched Impact (ft-lb/in)	3.5
THERMAL	
Melting Temp (°F / °C)	635 / 335
Max Operating Temp (°F / °C)	500 / 260
Flammability Rating	V-0
ELECTRICAL	
Dielectric Constant at 1 MHz	2.1
Dissipation Factor at 1 MHz	< 0.0002
Arc Resistance (sec)	< 300
Volume Resistivity (ohm-cm)at 50% RH	> 10 <sup>18</sup>



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## FOOD GRADE COATING

Food grade coatings is of great advantage for industries where non-stick property is main criteria. Because of Non-stick properties, chemical powders do not stick to the tray. It is widely used in chemical, pharmaceutical industries and Consumer goods like cooking utensils.

**Thickness** : 25 to 100 Microns

**Working Temp.** : upto +250 °C

