

## EU 10/2021

### 行业

当涉及到食品和包装时，不断更新的法规要求根据食品接触的生产标准专门开发和测试材料。

### 认证详情

(EU) 10/2011 条例规定了与食品接触的塑料材料和物品的安全要求。本条例是欧盟框架法规 (EU) 1935/2004 中提及的塑料食品接触材料的具体措施。

EU 10/2021 认证针对所有接触食品的产品制造商 (MOCA/FCM)。它证明，涉及产品分销的整个供应链符合官方标准要求。认证到期后，不需要重新进行这些试验。

### 试验

- 食品模拟物和接触条件
- 乙醇，10% v/v，100° C 下 4 小时
- 精制橄榄油，175° C 下 2 小时
- 醋酸水溶液，3% w/v，100° C 下 4 小时
- 钡 (Ba)、钴 (Co)、锰 (Mn)、锌 (Zn)、铜 (Cu)、铁 (Fe)、锂 (Li) 的特定迁移
- 着色剂的特定迁移
- 芳香族伯胺的定量测定
- 四氟乙烯的特定迁移
- 乙二醇 (EG) 和二甘醇 (DEG) 的特定迁移
- 对苯二甲酸 (TPA) 和间苯二甲酸 (IPA) 的特定迁移
- 嗅觉感官试验

fluorseals S.p.A.

Via Tribolina, 20/22  
24064 - Grumello del Monte (BG)  
Italy

电话 +39 035 4492811  
传真 +39 035 831410  
电子邮件 info@fluorseals.it  
税号 (VAT) IT00593110166

in @ f

fluorseals.it

## 获得认证的材料

### 纯 PTFE 和改性 PTFE

- fluteck™ P 900
- fluteck™ P 950
- fluteck™ P 1000
- fluteck™ P 1001
- fluteck™ P 1002
- fluteck™ P 1003
- fluteck™ P 1004
- fluteck™ P 1005
- fluteck™ P 1006
- fluteck™ P 1007
- fluteck™ P 1008
- fluteck™ P 1009
- fluteck™ P 1010
- fluteck™ P 1050
- fluteck™ P 1058
- fluteck™ P 1059
- fluteck™ P 1100
- fluteck™ P 1200
- fluteck™ P 1500
- fluteck™ P 1550
- fluteck™ P 2000
- fluteck™ P 2020
- fluteck™ P 2620
- fluteck™ P 3000
- fluteck™ P POROUS

### 玻璃化合物系列

- fluteck™ P 7201 GL
- fluteck™ P 7500 GL
- fluteck™ P 7502 GL
- fluteck™ P 7503 GL
- fluteck™ P 7511 GL
- fluteck™ P 7550 GL
- fluteck™ P 8000 GL
- fluteck™ P 8003 GL
- fluteck™ P 8500 GL
- fluteck™ P 8502 GL
- fluteck™ P 8503 GL
- fluteck™ P 8505 GL
- fluteck™ P 8550 GL
- fluteck™ P 8560 GL
- fluteck™ P 8600 GL
- fluteck™ P 9051 GL
- fluteck™ P 9500 GL
- fluteck™ P 9550 GL

### 碳石墨化合物系列

- fluteck™ P 7000 CG
- fluteck™ P 7500 CG
- fluteck™ P 7502 CG
- fluteck™ P 7550 CG
- fluteck™ P 8000 CG

### 石墨化合物系列

- fluteck™ P 7500 GR
- fluteck™ P 8000 GR
- fluteck™ P 8500 GR
- fluteck™ P 9000 GR
- fluteck™ P 9500 GR

### 碳化合物系列

- fluteck™ P 6500 CA
- fluteck™ P 6510 CA
- fluteck™ P 7000 CA
- fluteck™ P 7500 CA
- fluteck™ P 7510 CA
- fluteck™ P 7550 CA
- fluteck™ P 7551 CA
- fluteck™ P 7552 CA
- fluteck™ P 7600 CA
- fluteck™ P 8000 CA
- fluteck™ P 8500 CA
- fluteck™ P 8510 CA
- fluteck™ P 9000 CA
- fluteck™ P 9010 CA
- fluteck™ P 9500 CA

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## 碳纤维化合物系列

- fluteck™ P 7500 CF
- fluteck™ P 8500 CF
- fluteck™ P 9000 CF
- fluteck™ P 9002 CF

## 碳导电化合物系列

- fluteck™ P 9801 CS
- fluteck™ P 9851 CS

## EKONOL 化合物系列

- fluteck™ P 8500 EK
- fluteck™ P 9000 EK

## INOX 化合物系列

- fluteck™ P 5000 IN

## PEEK 化合物系列

- fluteck™ P 8000 PK

## 聚酰亚胺化合物系列

- fluteck™ P 8500 PI
- fluteck™ P 9000 PI

## 石英化合物系列

- fluteck™ P 8050 QZ
- fluteck™ P 8500 QZ

## PCTFE 系列

- fluteck™ C 100

## PEEK 系列

- fluteck™ K 300

## fluteck S – Superior

- fluteck™ P 504
- fluteck™ P 1522
- fluteck™ P 8500 SFC
- fluteck™ P BLU
- fluteck™ P CFU
- fluteck™ P FAWN
- fluteck™ P FE
- fluteck™ P FJ
- fluteck™ P FR
- fluteck™ P HCP
- fluteck™ P M2
- fluteck™ P RJ
- fluteck™ P VR-H
- fluteck™ P VXR
- fluteck™ P TPU
- fluteck™ P MICRO
- fluteck™ P MXD
- fluteck™ P WHITE
- fluteck™ P XM

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## EU 10/2021

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### Industry

When it comes to food and packaging, the growing legislation requires specifically developed and tested materials, in accordance with production standards for contact with food.

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### Certification Details

Regulation (EU) 10/2011 sets out safety requirements for plastic materials and articles intended to come into contact with food. This regulation is a specific measure for plastic food contact materials as mentioned in the European Framework Regulation (EU) 1935/2004

EU10/2021 certification is specific for all manufacturers of products that come into contact with food (MOCA/FCM). It certifies that the entire supply chain, involved in product distribution, complies with the official standards requirement. These tests do not require a renewal.

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### Tests

- Food simulant and Contact condition
  - Ethanol 10% v/v 4 hours at 100°C
  - Rectified olive oil 2 hours at 175°C
  - Acetic acid in aqueous solution 3% w/v 4 hours at 100°C
- Specific migration of Ba, Co, Mn, Zn, Cu, Fe, Li
- Specific migration of colorants
- Quantitative determination of primary aromatic amines
- Specific migration of tetrafluoroethylene
- Specific migration of ethylene glycol (EG) and diethylene glycol (DEG)
- Specific migration of terephthalic acid (TPA) and isophthalic acid (IPA)
- Olfactory organoleptic test

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**T** +39 035 4492811  
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## Certified Materials

### VIRGIN AND MODIFIED PTFE

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- fluteck™ P 2000
- fluteck™ P 2020
- fluteck™ P 2620
- fluteck™ P 3000
- fluteck™ P POROUS

### GLASS COMPOUND SERIES

- fluteck™ P 7201 GL
- fluteck™ P 7500 GL
- fluteck™ P 7502 GL
- fluteck™ P 7503 GL
- fluteck™ P 7511 GL
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- fluteck™ P 8560 GL
- fluteck™ P 8600 GL
- fluteck™ P 9051 GL
- fluteck™ P 9500 GL
- fluteck™ P 9550 GL

### CARBO-GRAPHITE COMPOUND SERIES

- fluteck™ P 7000 CG
- fluteck™ P 7500 CG
- fluteck™ P 7502 CG
- fluteck™ P 7550 CG
- fluteck™ P 8000 CG

### GRAPHITE COMPOUND SERIES

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### CARBON COMPOUND SERIES

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E [info@fluorseals.it](mailto:info@fluorseals.it)  
VAT IT00593110166

**CARBON FIBER COMPOUND SERIES**

- fluteck™ P 7500 CF
- fluteck™ P 8500 CF
- fluteck™ P 9000 CF
- fluteck™ P 9002 CF

**CARBON CONDUCTIVE COMPOUND SERIES**

- fluteck™ P 9801 CS
- fluteck™ P 9851 CS

**EKONOL COMPOUND SERIES**

- fluteck™ P 8500 EK
- fluteck™ P 9000 EK

**INOX COMPOUND SERIES**

- fluteck™ P 5000 IN

**PEEK COMPOUND SERIES**

- fluteck™ P 8000 PK

**POLYIMIDE COMPOUND SERIES**

- fluteck™ P 8500 PI
- fluteck™ P 9000 PI

**QUARZ COMPOUND SERIES**

- fluteck™ P 8050 QZ
- fluteck™ P 8500 QZ

**PCTFE SERIES**

- fluteck™ C 100

**PEEK SERIES**

- fluteck™ K 300

**fluteck S – Superior**

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