

# TECAFLON PTFE natural - 型材 (棒材,板材,管件)

## 化學命名

PTFE (聚四氟乙烯)

### 顏色

白色 不透明

## 密度

2.15 g/cm<sup>3</sup>

# 主要特色

- → 優異的耐化學性
- → 固有的防火性
- → 連續使用溫度至 260°C
- → 良好的耐候和耐UV性
- → 優異的電氣絕緣
- → 優異的滑動和耐磨特性

### 目標產業

- → 航空與航太科技
- → 化學技術
- → 冷凍技術
- → 食品科技
- → 機械工程

→ 半導體科:	支
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機械特性	參數	值	單位	標準		註解
抗拉強度		22	MPa	ASTM D 4894	1)	(1) Tested on extruded and machined specimen     (2) Tested on extruded and machined specimen
斷裂伸長率		220	%	ASTM D 4894	2)	
壓縮強度	1% strain	5	MPa	ASTM D 695		
蕭氏硬度	D	59		DIN EN ISO 868	<u>-</u>	
熱特性	参數	值	單位	標準		<i>註解</i>
玻璃轉化溫度		- 20	°C	DIN EN ISO 11357	1)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
使用溫度	short term	260	°C	-	2)	
使用溫度	long term	260	°C	-		
熱膨脹 (CLTE)	23-100°C, long.	13	10 <sup>-5</sup> K <sup>-1</sup>	ASTM D 696	<u>-</u>	
導熱係數		0.20	W/(K*m)	ASTM C 177	••••••••••••••••••••••••••••••••••••••	
電性特性	参數	值	單位	標準	-	<i>註解</i>
表面電阻		10 <sup>16</sup>	Ω	ASTM D 257	1)	(1) Without defects
體積電阻		10 <sup>17</sup>	Ω*cm	ASTM D 257	<del>-</del>	
介電強度	In air, 0.125mm thick	80	kV/mm	ASTM D 149	······	
介電常數	50-109Hz	2.1		ASTM D 150	<u>-</u>	
其他特性	参數	值	單位	標準		<i>註解</i>
吸水率	23°C	< 0.01	%	ASTM D 570		(1) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.
耐燃性(UL94)	corresponding to	V0		DIN IEC 60695-11-10;	1)	

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