

# TECASON P MT yellow - 型材 (棒材, 板材, 管件)

## 化學命名

PPSU (聚苯砜)

## 顏色

黃色 不透明

## 密度

1.31 g/cm<sup>3</sup>

## 主要特色

- 高熱與機械能力
- 良好的熱變形溫度
- 耐水解和熱蒸氣
- 良好的衝擊強度
- 高剛性
- 高強度
- 良好的耐化學性
- 高伽瑪輻射抗性

## 目標產業

- 醫療科技
- 化學技術
- 電子學
- 食品科技
- 機械工程
- 汽車工業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	81	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	2300	MPa	DIN EN ISO 527-2	1) (2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	81	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	7	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	> 50	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
抗彎強度	2mm/min, 10 N	107	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	2300	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	18/30/66	MPa	EN ISO 604	3)
壓縮模數	5mm/min, 10 N	2000	MPa	EN ISO 604	4)
衝擊強度(Charpy)	max. 7.5J	n.b.	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	5)
缺口衝擊強度(Charpy)	max. 7.5J	13	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
蕭氏硬度	D	84		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		218	°C	DIN EN ISO 11357	1) (1) Found in public sources.
熔化溫度		n.a.	°C	DIN EN ISO 11357	2) (2) n.a. = not applicable
使用溫度	short term	190	°C		3) (3) Found in public sources. Individual testing regarding application conditions is mandatory.
使用溫度	long term	170	°C		
熱膨脹 (CLTE)	23-60°C, long.	6	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	6	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
比熱		1.1	J/(g*K)	ISO 22007-4:2008	
導熱係數		0.25	W/(K*m)	ISO 22007-4:2008	
電性特性	參數	值	單位	標準	註解
表面電阻		10 <sup>14</sup>	Ω	-	
體積電阻		10 <sup>14</sup>	Ω*cm	-	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.1 / 0.2	%	DIN EN ISO 62	1) (1) Ø ca. 50mm, h=13mm
耐熱水/鹼		+	-	-	2) (2) + good resistance
耐候性		-	-	-	3) (3) - poor resistance
耐燃性(UL94)	listed (value at 0.79mm)	V0		DIN IEC 60695-11-10;	

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