

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

### 化學命名

PPSU (聚苯砜)

### 顏色

黑色 不透明

### 密度

1.34 g/cm<sup>3</sup>

### 添加物

硫酸鋇

### 主要特色

- x光線下可見
- 高熱與機械能力
- 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

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	77	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	2600	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	77	MPa	DIN EN ISO 527-2	(3) For Charpy test: support span 64mm, norm specimen.
降伏點伸長率	50mm/min	6	%	DIN EN ISO 527-2	n.b. = not broken
斷裂伸長率	50mm/min	> 50	%	DIN EN ISO 527-2	(4) Specimen in 4mm thickness
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	2400	MPa	DIN EN ISO 178	
衝擊強度(Charpy)	max. 7,5J	n.b.	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	3)
缺口衝擊強度(Charpy)	max. 7,5J	7	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
球壓式硬度		139	MPa	ISO 2039-1	4)
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.
使用溫度	short term	190	°C		2) (2) Found in public sources.
使用溫度	long term	170	°C		Individual testing regarding application conditions is mandatory.
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)	corresponding to	V0		DIN IEC 60695-11-10;	4) (4) 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.

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