

TECASON P MT orange - 型材 (棒材, 板材, 管件)

化學命名

PPSU (聚苯砜)

顏色

橘色 不透明

密度

1.3 g/cm³

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
- 機械工程
- 真空科技
- 汽車工業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	84	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	2400	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	84	MPa	DIN EN ISO 527-2	(3) For Charpy test: support span 64mm, norm specimen.
降伏點伸長率	50mm/min	7.6	%	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	105	MPa	DIN EN ISO 178	(2)
彈性模數 (彎曲測試)	2mm/min, 10 N	2200	MPa	DIN EN ISO 178	
衝擊強度(Charpy)	max. 7.5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	(3)
缺口衝擊強度(Charpy)	max. 7.5J	12	kJ/m ²	DIN EN ISO 179-1eA	
球壓式硬度		137	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) Found in public sources.
熔化溫度		n.a.	°C	DIN EN ISO 11357	(2) n.a. = not applicable
使用溫度	short term	190	°C		(3) 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) Ø ca. 50mm, h=13mm
耐熱水/鹼		+	-	-	(2) + good resistance
耐燃性(UL94)	listed (value at 0.79mm)	V0		DIN IEC 60695-11-10;	

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