

TECASON P MT orange - 型材 (棒材, 板材, 管件)

化學命名

PPSU (聚苯磺)

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;	

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference dimensions (typically rods with diameter 40-60 mm according to DIN EN 15860) on extruded and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com. Technical changes reserved.