

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

化學命名
PPSU (聚苯硫)
顏色
紅色 不透明
密度
1.35 g/cm³
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
→ 機械工程
→ 真空科技

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	79	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	79	MPa	DIN EN ISO 527-2	(3) For Charpy test: support span 64mm, norm specimen.
降伏點伸長率	50mm/min	7	%	DIN EN ISO 527-2	n.b. = not broken
斷裂伸長率	50mm/min	> 50	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	103	MPa	DIN EN ISO 178	(2)
彈性模數 (彎曲測試)	2mm/min, 10 N	2300	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	
蕭氏硬度	D	85		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) Found in public sources.
使用溫度	short term	190	°C		(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) Ø ca. 50mm, h=13mm
耐熱水/鹼		+	-	-	(2) + good resistance
耐候性		-	-	-	(3) - poor resistance
耐燃性(UL94)	corresponding to	V0		DIN IEC 60695-11-10;	(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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