TECASON P MT XRO grey - 型材 (棒材,板材,管件)

化學命名
PPSU (聚苯碸)

顏色
灰色 不透明

密度
1.36 g/cm^3

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	80	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen type 1b (2) For flexural test: support span 64mm, norm specimen. (3) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
彈性模數 (張力測試)	1mm/min	2500	MPa	DIN EN ISO 527-2	1)	
降伏點抗拉強度	50mm/min	80	MPa	DIN EN ISO 527-2		
降伏點伸長率	50mm/min	7	%	DIN EN ISO 527-2		
斷裂伸長率	50mm/min	> 50	%	DIN EN ISO 527-2		
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	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	13	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)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
使用溫度	short term	190	°C		2)	
使用溫度	long term	170	°C			

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 (2) + good resistance (3) - poor resistance (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.
耐熱水/鹼		+		-	2)	
耐候性		-		-	3)	
耐燃性(UL94)	corresponding to	V0		DIN IEC 60695-11-10;	4)	

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