

TECAST T blue - 型材 (棒材, 板材, 管件)

化學命名

PA 6 C (澆鑄聚醯胺 6)

顏色

藍色 不透明

密度

1.15 g/cm³

加工後所產生的數據(依德國標準氣候為主)。

主要特色

- 良好的磨損性
- 良好的機械特性
- 高疲乏強度
- 良好的阻尼性
- 高機械載重能力
- 耐油、潤滑油及燃油

目標產業

- 營造工業
- 齒輪製造業
- 石油和天然氣工業
- 輸送機技術
- 農業用機械
- 重工業
- 採礦工業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	89	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	3600	MPa	DIN EN ISO 527-2	1)
降伏點抗拉強度	50mm/min	89	MPa	DIN EN ISO 527-2	
降伏點伸長率	50mm/min	18	%	DIN EN ISO 527-2	
斷裂伸長率	50mm/min	25	%	DIN EN ISO 527-2	
蕭氏硬度	D	82		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		49	°C	DIN EN ISO 11357	(1) Found in public sources. Individual testing regarding application conditions is mandatory.
熔化溫度		217	°C	DIN EN ISO 11357	
使用溫度	short term	170	°C	-	1)
使用溫度	long term	100	°C	-	(2) Found in public sources.
熱膨脹 (CLTE)	23-60°C, long.	11	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	2)
比熱		1.6	J/(g*K)	ISO 22007-4:2008	
導熱係數		0.33	W/(K*m)	ISO 22007-4:2008	
電性特性	參數	值	單位	標準	註解
表面電阻		10 ¹⁴	Ω	DIN IEC 60093	
其他特性	參數	值	單位	標準	註解
吸濕性	24h / 96h (23°C)	0.2 / 0.5	%	DIN EN ISO 62	1)
耐熱水/鹼		(+)		-	2)
耐候性		(+)		-	3)
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	3)

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