

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

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	
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	-	(2) Found in public sources.
使用溫度	long term	100	°C	-	
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) 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.
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	3)

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