

TECAMID 6 ID blue - 型材 (棒材, 板材, 管件)

化學命名

PA 6 (聚醯胺 6)

顏色

藍灰色 不透明

密度

1.24 g/cm³

添加物

可偵測填充物

加工後所產生的數據(依德國標準氣候為主)。

主要特色

- 高韌性
- 耐油、潤滑油及燃油
- 電絕緣
- 良好的磨損性
- 良好的可焊接性和黏結性
- 良好的滑動及耐磨特性
- 高強度
- 良好的加工特性

目標產業

- 電子學
- 食品科技
- 機械工程

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
彈性模數 (張力測試)	1mm/min	3600	MPa	DIN EN ISO 527-2	1) (2) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
降伏點抗拉強度	50mm/min	80	MPa	DIN EN ISO 527-2	
降伏點伸長率	50mm/min	4	%	DIN EN ISO 527-2	
斷裂伸長率	50mm/min	21	%	DIN EN ISO 527-2	
衝擊強度(Charpy)	max. 7.5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	2)
缺口衝擊強度(Charpy)	max. 7.5J	4	kJ/m ²	DIN EN ISO 179-1eA	
蕭氏硬度	D	81		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		45	°C	DIN EN ISO 11357	1)
熔化溫度		220	°C	DIN EN ISO 11357	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
使用溫度	short term	160	°C		2)
使用溫度	long term	100	°C		
電性特性	參數	值	單位	標準	註解
表面電阻	Silver electrode, 23°C, 12% r.h.	> 10 ¹³	Ω	-	1) (1) Specimen in 20mm thickness
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.3 / 0.6	%	DIN EN ISO 62	1) (1) Ø ca. 50mm, h=13mm
耐熱水/鹼		(+)		-	2) (2) (+) limited resistance
耐候性		-		-	3) (3) - poor resistance
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	4) (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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