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/cm^3

添加物
可偵測填充物

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

加工後所產生的數據(依德國標準氣候為主)。

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 Charpy test: support span 64mm, norm specimen. n.b. = not broken
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	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)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
熔化溫度		220	°C	DIN EN ISO 11357		
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 (2) (+) limited 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	HB		DIN IEC 60695-11-10;	4)	

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