

TECAMID 66 GF35 natural - 型材 (棒材, 板材, 管件)

化學命名

PA 66 (聚醯胺 66)

顏色

象牙色 不透明

密度

1.4 g/cm³

添加物

玻璃纖維

加工後所產生的數據(依德國標準氣候為主)。

主要特色

- 極高的剛性
- 耐油、潤滑油及燃油
- 良好的磨損性
- 極高的強度
- 良好的尺寸穩定性
- 良好的熱變形溫度
- 良好的可焊接性和黏結性

目標產業

- 航空與航太科技
- 機械工程
- 汽車工業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	103	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	5500	MPa	DIN EN ISO 527-2	1)
降伏點伸長率	50mm/min	7	%	DIN EN ISO 527-2	
斷裂伸長率	50mm/min	11	%	DIN EN ISO 527-2	
抗彎強度		150	MPa	DIN EN ISO 178	
彈性模數 (彎曲測試)		5100	MPa	DIN EN ISO 178	
衝擊強度(Charpy)		85	kJ/m ²	DIN EN ISO 179-1eU	
缺口衝擊強度(Charpy)		5	kJ/m ²	DIN EN ISO 179-1eA	
蕭氏硬度	D	84		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		48	°C	DIN EN ISO 11357	1)
熔化溫度		254	°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	170	°C		2)
使用溫度	long term	110	°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 ¹⁴		DIN IEC 60093	(1) Due to moisture uptake of the material the electrical insulation properties cannot be 100% guaranteed, despite single measurements suggesting otherwise.
體積電阻	Silver electrode, 23°C, 12% r.h.	10 ¹⁴		DIN IEC 60093	1)
其他特性	參數	值	單位	標準	註解
耐熱水/鹼		(+)		-	1)
耐候性		(+)			(1) (+) limited resistance (2) 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;	2)

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