

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

化學命名 PA 66 (聚醯胺 66)	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
顏色 象牙色 不透明		
密度 1.4 g/cm ³		
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)。		

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	
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) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
熔化溫度		254	°C	DIN EN ISO 11357	
使用溫度	short term	170	°C		
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	
其他特性	參數	值	單位	標準	註解
耐熱水/鹼		(+)		-	(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.
耐候性		(+)			
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	

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