

# TECAMID 6 FRT black - 型材 (棒材, 板材, 管件)

## 化學命名

PA 6 (聚醯胺 6)

## 顏色

黑色 不透明

## 密度

1.19 g/cm<sup>3</sup>

## 添加物

阻燃劑 (無鹵素)

加工後所產生的數據(依德國標準氣候為主)。

## 主要特色

- 根據 EN 45545 檢測
- 耐油、潤滑油及燃油
- 良好的滑動及耐磨特性
- 高強度
- 良好的加工特性

## 目標產業

- 航空與航太科技
- 運輸工具
- 電子學
- 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	78	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	4200	MPa	DIN EN ISO 527-2	1) (2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	78	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	4	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	4	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen.
抗彎強度	2mm/min, 10 N	124	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	3800	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	27/54/95	MPa	EN ISO 604	3)
壓縮模數	5mm/min, 10 N	3000	MPa	EN ISO 604	4)
衝擊強度(Charpy)	max. 7.5J	62	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	5)
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		45	°C	DIN EN ISO 11357	1)
熔化溫度		221	°C	DIN EN ISO 11357	
使用溫度	short term	160	°C		2)
使用溫度	long term	100	°C		
熱膨脹 (CLTE)	23-60°C, long.	7	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1:2	
其他特性	參數	值	單位	標準	註解
耐熱水/鹼		(+)		-	1)
耐候性		-		-	2)
耐燃性	60 sec. Vertical Bunsen Burner test, 25.853 (a) and Appendix F, Part I, para. (a)(1)(i)	+		FAR 25.853	3)
耐燃性(UL94)	corresponding to	V0		DIN IEC 60695-11-10;	4)
耐燃性		R22 HL1 HL2, R23 HL3		EN 45545-2:2016	

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