

## TECAMID 6/3 TR natural - 型材(棒材,板材,管件)

### 化學命名

PA 6-3-T (聚醯胺 6-3-T)

### 顏色

淺黃色 透明色

### 密度

1.12 g/cm<sup>3</sup>

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
- 良好的耐化學性
- 良好的加工特性
- 良好的熱變形溫度
- 對壓力破裂敏感
- 高強度
- 易於研磨

### 目標產業

- 電子學
- 食品科技
- 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	93	MPa	DIN EN ISO 527-2
彈性模數 (張力測試)	1mm/min	2800	MPa	DIN EN ISO 527-2 1)
降伏點抗拉強度	50mm/min	93	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	49	%	DIN EN ISO 527-2
抗彎強度	2mm/min, 10 N	117	MPa	DIN EN ISO 178 2)
彈性模數 (彎曲測試)	2mm/min, 10 N	2800	MPa	DIN EN ISO 178
壓縮強度	1% / 2% 5mm/min, 10 N	21 / 37	MPa	EN ISO 604 3)
壓縮模數	5mm/min, 10 N	2400	MPa	EN ISO 604 4)
衝擊強度(Charpy)	max. 7,5J	n.b.	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU 5)
缺口衝擊強度(Charpy)	max. 7,5J	7	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA
球壓式硬度	150	MPa	ISO 2039-1	6)

### 熱特性

參數	值	單位	標準	註解
玻璃轉化溫度	148	°C	DIN EN ISO 11357	1)
熔化溫度	n.a.	°C	DIN EN ISO 11357	2)
使用溫度	short term	120	°C	3)
使用溫度	long term	100	°C	
熱膨脹 (CLTE)	23-60°C, long.	12	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
熱膨脹 (CLTE)	23-100°C, long.	12	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
比熱	1.6	J/(g*K)	ISO 22007-4:2008	
導熱係數	0.36	W/(K*m)	ISO 22007-4:2008	

### 電性特性

參數	值	單位	標準	註解
表面電阻	10 <sup>14</sup>	Ω	-	
體積電阻	10 <sup>14</sup>	Ω*cm	-	

### 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)
耐熱水/鹼	(+)	-	-	2)
耐候性	-	-	-	3)
耐燃性(UL94)	listed (value at 0.88mm)	V2	DIN IEC 60695-11-10;	4)

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