

TECAMID 66 HI brown - 型材(棒材,板材,管件)

化學命名
PA 66 (聚醯胺 66)

顏色
棕色 不透明

密度
1.15 g/cm³

添加物
熱穩定性

主要特色

- 良好的滑動及耐磨特性
- 高強度
- 高韌性
- 高剛性
- 熱穩定性
- 耐油、潤滑油及燃油
- 良好的磨損性
- 良好的可焊接性和黏結性

目標產業

- 機械工程
- 電子學
- 汽車工業

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	89	MPa	DIN EN ISO 527-2	
彈性模數 (張力測試)	1mm/min	3400	MPa	DIN EN ISO 527-2	1)
降伏點抗拉強度	50mm/min	72	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	25	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	112	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	3300	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	14/29/80	MPa	EN ISO 604	3)
壓縮模數	5mm/min, 10 N	2900	MPa	EN ISO 604	4)
衝擊強度(Charpy)	max. 7,5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	5)
缺口衝擊強度(Charpy)	max. 7,5J	5	kJ/m ²	DIN EN ISO 179-1eA	
球壓式硬度		191	MPa	ISO 2039-1	6)
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		57	°C	DIN EN ISO 11357	1)
熔化溫度		263	°C	DIN EN ISO 11357	
使用溫度	short term	180	°C		2)
使用溫度	long term	115	°C		
熱膨脹 (CLTE)	23-60°C, long.	12	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	12	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
比熱	1.5	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 ¹⁴	Ω		-	
體積電阻	10 ¹⁴	Ω*cm		-	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.2 / 0.3	%	DIN EN ISO 62	1)
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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