

TECADUR PET CMP natural - 型材(棒材,板材,管件)

化學命名
PET (聚對苯二甲酸乙二酯)

顏色
白色 不透明

密度
1.39 g/cm³

主要特色

- 高強度
- 良好的滑動及耐磨特性
- 良好的耐磨性
- 良好的可焊接性和黏結性
- 不耐60°C以上的熱水
- 高韌性
- 良好的耐化學性
- 高剛性

目標產業

- 半導體科技

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	91	MPa	DIN EN ISO 527-2	
彈性模數 (張力測試)	1mm/min	3300	MPa	DIN EN ISO 527-2	1)
降伏點抗拉強度	50mm/min	91	MPa	DIN EN ISO 527-2	
降伏點伸長率	50mm/min	4	%	DIN EN ISO 527-2	
斷裂伸長率	50mm/min	14	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	134	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	3400	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% 5mm/min, 10 N	21 / 38	MPa	EN ISO 604	3)
壓縮模數	5mm/min, 10 N	2800	MPa	EN ISO 604	4)
衝擊強度(Charpy)	max. 7,5J	150	kJ/m ²	DIN EN ISO 179-1eU	5)
球壓式硬度		194	MPa	ISO 2039-1	6)
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		81	°C	DIN EN ISO 11357	1)
熔化溫度		244	°C	DIN EN ISO 11357	
使用溫度	short term	170	°C		2)
使用溫度	long term	110	°C		
熱膨脹 (CLTE)	23-60°C, long.	8	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	10	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
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)	0.02 / 0.03	%	DIN EN ISO 62	1)
耐熱水/鹼	-	-	-		2)
耐候性	-	-	-		
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	3)

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