

TECAST T MO black - 型材(棒材, 板材, 管件)

化學命名

PA 6 C (澆鑄聚醯胺 6)

顏色

黑色 不透明

密度

1.15 g/cm³

添加物

二硫化鉬

加工後所產生的數據(依德國標準氣候為主)。

主要特色

- 良好的磨損性
- 耐油、潤滑油及燃油
- 高韌性
- 良好的阻尼性
- 良好的滑動及耐磨特性
- 高強度

目標產業

- 機械工程
- 汽車工業
- 重工業

機械特性

參數	值	單位	標準	註解
抗拉強度	50mm/min	82	MPa	DIN EN ISO 527-2
彈性模數 (張力測試)	1mm/min	3200	MPa	DIN EN ISO 527-2 1)
降伏點抗拉強度	50mm/min	80	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	55	%	DIN EN ISO 527-2
抗彎強度	2mm/min, 10 N	102	MPa	DIN EN ISO 178 2)
彈性模數 (彎曲測試)	2mm/min, 10 N	3000	MPa	DIN EN ISO 178
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	22/38/85	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	n.b.	kJ/m ²	DIN EN ISO 179-1eU 5)
缺口衝擊強度(Charpy)	max. 7,5J	4	kJ/m ²	DIN EN ISO 179-1eA
蕭氏硬度	D	83		DIN EN ISO 868

熱特性

參數	值	單位	標準	註解
玻璃轉化溫度	43	°C	DIN EN ISO 11357	1)
熔化溫度	217	°C	DIN EN ISO 11357	
使用溫度	short term	170	°C	2)
使用溫度	long term	100	°C	
熱膨脹 (CLTE)	23-60°C, long.	11	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2
熱膨脹 (CLTE)	23-100°C, long.	11	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2
比熱	1.6	J/(g*K)	ISO 22007-4:2008	
導熱係數	0.33	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	DIN IEC 60093	
體積電阻	10 ¹⁴	Ω*cm	DIN IEC 60093	1)

其他特性

參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.2 / 0.5	%	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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