

TECAGLIDE green - 型材 (棒材, 板材, 管件)

化學命名

PA 6 C (澆鑄聚醯胺 6)

顏色

綠色 不透明

密度

1.13 g/cm³

添加物

固態潤滑劑

加工後所產生的數據(依德國標準氣候為主)。

主要特色

- 電絕緣
- 耐油、潤滑油及燃油
- 良好的滑動及耐磨特性
- 高韌性
- 良好的磨損性
- 高機械載重能力

目標產業

- 機械工程

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	76	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	3200	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	76	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	14	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	18	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
抗彎強度	2mm/min, 10 N	103	MPa	DIN EN ISO 178	(2)
彈性模數 (彎曲測試)	2mm/min, 10 N	3100	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	18/34/75	MPa	EN ISO 604	(3)
壓縮模數	5mm/min, 10 N	2500	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	79		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		218	°C	DIN EN ISO 11357	
使用溫度	short term	130	°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.	12	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
比熱		1.7	J/(g*K)	ISO 22007-4:2008	
導熱係數		0.38	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	
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) (1) Ø ca. 50mm, h=13mm
耐熱水/鹼		(+)		-	(2) (2) (+) limited resistance
耐候性		-		-	(3) (3) - poor resistance
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	(4) (4) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.

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