

TECAGLIDE 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

1.13 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
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	76	MPa	DIN EN ISO 527-2
降伏點伸長率	50mm/min	14	%	DIN EN ISO 527-2
斷裂伸長率	50mm/min	18	%	DIN EN ISO 527-2
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
球壓式硬度	159	MPa	ISO 2039-1	6)

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)
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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