

TECAPEEK SM GF30 natural - 型材 (棒材, 板材, 管件)

化學命名

PEEK (聚醚醚酮)

顏色

米黃色 不透明

密度

1.53 g/cm³

添加物

玻璃纖維

主要特色

- 良好的尺寸穩定性
- 優異的耐化學性
- 固有的防火性
- 良好的熱變形溫度
- 耐水解和熱蒸氣
- 良好的加工特性
- 極高的耐蠕變性

目標產業

- 石油和天然氣工業
- 化學技術
- 能源工業
- 機械工程

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	109	MPa	DIN EN ISO 527-2	1)
彈性模數 (張力測試)	1mm/min	8000	MPa	DIN EN ISO 527-2	
斷裂伸長率	50 mm/min	2	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	178	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	7700	MPa	DIN EN ISO 178	
衝擊強度(Charpy)		29	MPa	DIN EN ISO 179-1eA	3)
球壓式硬度		310	MPa	ISO 2039-1	4)
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		150	°C	DIN EN ISO 11357	1)
熔化溫度		341	°C	DIN EN ISO 11357	
使用溫度	short term	300	°C	-	2)
使用溫度	long term	260	°C	-	
熱膨脹 (CLTE)	23-60°C, long.	3	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	3	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	100-150°C, long.	4	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	-	
其他特性	參數	值	單位	標準	註解
耐熱水/鹼		+	-	-	1)
耐候性		-	-	-	2)
耐燃性(UL94)	corresponding to	V0	-	-	3)

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