

TECAFORM AH GF25 natural - 型材 (棒材, 板材, 管件)

化學命名

POM-C (聚縮醛 (共聚物))

顏色

白色 不透明

密度

1.59 g/cm³

添加物

玻璃纖維

主要特色

- 高強度
- 良好的磨損性
- 良好的耐化學性
- 電絕緣
- 極高的剛性
- 難以黏合

目標產業

- 電子學
- 機械工程
- 汽車工業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	51	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	4200	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	51	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	9	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	12	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen.
抗彎強度	2mm/min, 10 N	88	MPa	DIN EN ISO 178	(6) Specimen in 4mm thickness
彈性模數 (彎曲測試)	2mm/min, 10 N	4100	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	23/39/74	MPa	EN ISO 604	(3)
壓縮模數	5mm/min, 10 N	3600	MPa	EN ISO 604	(4)
衝擊強度(Charpy)	max. 7.5J	36	kJ/m ²	DIN EN ISO 179-1eU	(5)
球壓式硬度		180	MPa	ISO 2039-1	(6)
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		-60	°C	DIN EN ISO 11357	(1)
熔化溫度		170	°C	DIN EN ISO 11357	(2)
使用溫度	short term	140	°C		(2)
使用溫度	long term	100	°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.	8	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
比熱		1.2	J/(g*K)	ISO 22007-4:2008	
導熱係數		0.47	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	-	
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)	0.07 / 0.2	%	DIN EN ISO 62	(1) Ø ca. 50mm, h=13mm
耐熱水/鹼	(+)	-	-	-	(2) (+) limited resistance
耐候性	-	-	-	-	(3) - poor resistance
耐燃性(UL94)	corresponding to	HB	-	DIN IEC 60695-11-10;	(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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