

TECAFORM AD AF natural - 型材 (棒材, 板材, 管件)

化學命名

POM-H (聚縮醛 (均聚物))

顏色

深棕色 不透明

密度

1.49 g/cm³

添加物

鐵氟龍

主要特色

- 良好的滑動及耐磨特性
- 高強度
- 電絕緣
- 高韌性
- 良好的加工特性
- 良好的耐化學性
- 難以黏合
- 不耐60°C以上的熱水

目標產業

- 機械工程
- 汽車工業
- 航空與航太科技
- 電子學
- 食品科技

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	53	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	3000	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	53	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	8	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	8	%	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	85	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	19/33/67	MPa	EN ISO 604	(3)
壓縮模數	5mm/min, 10 N	2400	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	25	kJ/m ²	DIN EN ISO 179-1eA	
蕭氏硬度	D	81		DIN EN ISO 868	
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		179	°C	DIN EN ISO 11357	
熱變形溫度	HDT, Method A	141	°C	ISO-R 75 Method A	
使用溫度	short term	150	°C		(2)
使用溫度	long term	110	°C		
熱膨脹 (CLTE)	23-60°C, long.	12	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	13	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
比熱		1.3	J/(g*K)	ISO 22007-4:2008	
導熱係數		0.46	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	-	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.05 / 0.1	%	DIN EN ISO 62	(1) (2) (3)
耐熱水/鹼		-	-	-	(2) (3)
耐候性		-	-	-	(3)
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	(3)

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