

## 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/cm<sup>3</sup>

**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	
彈性模數 (張力測試)	1mm/min	3000	MPa	DIN EN ISO 527-2	1)
降伏點抗拉強度	50mm/min	53	MPa	DIN EN ISO 527-2	
降伏點伸長率	50mm/min	8	%	DIN EN ISO 527-2	
斷裂伸長率	50mm/min	8	%	DIN EN ISO 527-2	
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 <sup>2</sup>	DIN EN ISO 179-1eU	5)
缺口衝擊強度(Charpy)	max. 7,5J	25	kJ/m <sup>2</sup>	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 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	13	10 <sup>-5</sup> K <sup>-1</sup>	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 <sup>14</sup>	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)
耐熱水/鹼	-	-		-	2)
耐候性	-	-		-	
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	3)

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