

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

化學命名

POM-C (聚縮醛 (共聚物))

顏色

象牙色 不透明

密度

1.35 g/cm³

添加物

抗靜電劑

主要特色

- 抗靜電
- 無煤煙
- 高強度
- 良好的磨損性
- 良好的耐化學性
- 高剛性
- 難以黏合
- 高韌性

目標產業

- 半導體科技
- 化學技術
- 電子學
- 機械工程

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	39	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	1300	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	39	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	23	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	23	%	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	46	MPa	DIN EN ISO 178	(2)
彈性模數 (彎曲測試)	2mm/min, 10 N	1200	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	12/19/34	MPa	EN ISO 604	(3)
壓縮模數	5mm/min, 10 N	1100	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	9	kJ/m ²	DIN EN ISO 179-1eA	
蕭氏硬度	D	74		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		165	°C	DIN EN ISO 11357	
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.	16	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	17	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
比熱		1.6	J/(g*K)	ISO 22007-4:2008	
導熱係數		0.30	W/(K*m)	ISO 22007-4:2008	

電性特性	參數	值	單位	標準	註解
表面電阻	Silver electrode, 23°C, 50% r.h.	10 ⁹ -10 ¹¹	Ω	-	(1) Specimen in 20mm thickness
體積電阻	Silver electrode, 23°C, 50% r.h.	10 ⁹	Ω*cm	-	(2) Specimen in 1mm thickness
介電強度	23°C, 50% r.h.	5	kV/mm	ISO 60243-1	(2)
耐電痕(CTI)	Platin electrode, 23°C, 50% r.h., solvent A	600	V	DIN EN 60112	

其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.9 / 1.8	%	DIN EN ISO 62	(1) (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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