

TECAPRO MT white - 型材 (棒材, 板材, 管件)

化學命名

PP (聚丙烯)

顏色

白色 不透明

密度

0.93 g/cm³

添加物

熱穩定性

主要特色

- 熱穩定性
- 生物相容性
- 良好的耐化學性
- 耐水解和熱蒸氣
- 低吸濕性
- 良好的滑動及耐磨特性

目標產業

- 醫療科技
- 食品科技
- 醫藥產業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	34	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	2000	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	34	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	5	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	67	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen.
抗彎強度	2mm/min, 10 N	54	MPa	DIN EN ISO 178	(6) Specimen in 4mm thickness
彈性模數 (彎曲測試)	2mm/min, 10 N	1800	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% 5mm/min, 10 N	16 / 26	MPa	EN ISO 604	(3)
壓縮模數	5mm/min, 10 N	1600	MPa	EN ISO 604	(4)
衝擊強度(Charpy)	max. 7,5J	140	kJ/m ²	DIN EN ISO 179-1eU	(5)
球壓式硬度		100	MPa	ISO 2039-1	(6)
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		-10	°C	DIN EN ISO 11357	(1)
熔化溫度		165	°C	DIN EN ISO 11357	(2)
熱變形溫度	HDT, Method A	87	°C	ISO-R 75 Method A	(3)
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.	13	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	14	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	DIN IEC 60093	
體積電阻		10 ¹⁴	Ω*cm	DIN IEC 60093	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.01 / 0.02	%	DIN EN ISO 62	(1) Ø ca. 50mm, h=13mm (2) (+) limited resistance (3) - poor resistance
耐熱水/鹼		(+)	-	-	(4) Corresponding means no listing at UL (yellow card).
耐候性		-	-	-	(3) The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	(4)

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