

TECADUR PBT UD blue - 型材 (棒材, 板材, 管件)

化學命名

PBT (聚對苯二甲酸丁二酯)

顏色

藍色 不透明

密度

1.56 g/cm³

添加物

可偵測填充物

主要特色

- 耐受清潔劑
- 良好的耐化學性
- 藍色食物等級
- 良好的尺寸穩定性
- 良好的衝擊強度
- 金屬可偵測
- x光線下可見

目標產業

- 食品工程
- 食品加工
- 輸送機技術
- 打包機和造紙機

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	62	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	3500	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	62	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	7	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	9	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen.
抗彎強度	2mm/min, 10 N	98	MPa	DIN EN ISO 178	(2)
彈性模數 (彎曲測試)	2mm/min, 10 N	3400	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	22/41/77	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	37	kJ/m ²	DIN EN ISO 179-1eU	(5)
缺口衝擊強度(Charpy)	max. 7,5J	4	kJ/m ²	DIN EN ISO 179-1eA	
蕭氏硬度	D	83		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		39	°C	DIN EN ISO 11357	(1) Found in public sources. Individual testing regarding application conditions is mandatory.
熔化溫度		224	°C	DIN EN ISO 11357	
使用溫度	short term	200	°C		(1)
使用溫度	long term	110	°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.	10	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.03 / 0.05	%	DIN EN ISO 62	(1) Ø ca. 50mm, h=13mm
耐熱水/鹼		-		-	(2) - poor resistance
耐候性		-			(3) 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.
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	(3)

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