

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	(1) (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) (2) - poor resistance (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.
耐熱水/鹼		-	-	-	(2)
耐候性		-	-	-	
耐燃性(UL94)	corresponding to	HB		DIN IEC 60695-11-10;	(3)

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