

TECAPEEK UD blue - 型材(棒材,板材,管件)

化學命名
PEEK (聚醚醚酮)

顏色
藍灰色 不透明

密度
1.71 g/cm³

添加物
可偵測填充物

- 主要特色**
- 良好的耐化學性
 - 金屬可偵測
 - x光線下可偵測
 - 高蠕變抗性
 - 固有的防火性
 - 良好的熱變形溫度
 - 耐水解和熱蒸氣
 - 良好的加工特性

- 目標產業**
- 食品工程
 - 食品加工
 - 飲料填裝系統工程
 - 輸送機技術
 - 醫藥產業
 - 機械工程

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	94	MPa	DIN EN ISO 527-2	
彈性模數 (張力測試)	1mm/min	5300	MPa	DIN EN ISO 527-2	1)
降伏點抗拉強度	50mm/min	94	MPa	DIN EN ISO 527-2	
降伏點伸長率	50mm/min	4	%	DIN EN ISO 527-2	
斷裂伸長率	50mm/min	4	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	155	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	5000	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	25/46/113	MPa	EN ISO 604	3)
壓縮模數	5mm/min, 10 N	1800	MPa	EN ISO 604	4)
衝擊強度(Charpy)	max. 7,5J	27	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	
球壓式硬度		257	MPa	ISO 2039-1	6)
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		151	°C	DIN EN ISO 11357	
熔化溫度		340	°C	DIN EN ISO 11357	
使用溫度	long term	260	°C	-	
使用溫度	short term	300	°C	-	1)
熱膨脹 (CLTE)	23-60°C, long.	5	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	5	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	100-150°C, long.	7	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)	0.02 / 0.03	%	DIN EN ISO 62	1)
耐熱水/鹹	+	-	-	-	2)
耐候性	-	-	-	-	3)
耐燃性(UL94)	corresponding to	V0		DIN IEC 60695-11-10;	4)

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