

## TECAFORM AH UD blue - 型材 (棒材, 板材, 管件)

### 化學命名

POM-C (聚縮醛 (共聚物))

### 顏色

藍色 不透明

### 密度

1.68 g/cm<sup>3</sup>

### 添加物

可偵測填充物

### 主要特色

- 金屬可偵測
- x光線下可見
- 藍色食物等級
- 良好的機械特性
- 良好的加工特性

### 目標產業

- 食品加工
- 食品工程
- 飲料填裝系統工程
- 打包機和造紙機
- 輸送機技術
- 醫藥產業

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	60	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	3300	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, nom specimen.
降伏點抗拉強度	50mm/min	60	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	13	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	13	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, nom specimen.
抗彎強度	2mm/min, 10 N	91	MPa	DIN EN ISO 178	(6) Specimen in 4mm thickness
彈性模數 (彎曲測試)	2mm/min, 10 N	3200	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	22/37/71	MPa	EN ISO 604	
壓縮模數	5mm/min, 10 N	1600	MPa	EN ISO 604	
衝擊強度(Charpy)	max. 7,5J	40	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	
缺口衝擊強度(Charpy)	max. 7,5J	5	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
球壓式硬度		166	MPa	ISO 2039-1	
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) Found in public sources.
熔化溫度		167	°C	DIN EN ISO 11357	(2) Found in public sources.
使用溫度	short term	140	°C		Individual testing regarding application conditions is mandatory.
使用溫度	long term	100	°C		
熱膨脹 (CLTE)	23-60°C, long.	11	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	12	10 <sup>-5</sup> K <sup>-1</sup>	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)	0,17/0,34	%	DIN EN ISO 62	(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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