

TECARAN ABS grey - 型材 (棒材, 板材, 管件)

化學命名

ABS (丙烯腈-丁二烯-苯乙烯共聚物)

顏色

灰色 不透明

密度

1.04 g/cm³

主要特色

- 電絕緣
- 高剛性
- 良好的耐化學性
- 低密度
- 良好的阻尼性
- 高韌性
- 低吸濕性
- 良好的可焊接性和黏結性

目標產業

- 汽車工業
- 電子學
- 食品科技
- 機械工程

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	32	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	1700	MPa	DIN EN ISO 527-2	(2) For flexural test: support span 64mm, norm specimen.
降伏點抗拉強度	50mm/min	32	MPa	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
降伏點伸長率	50mm/min	3	%	DIN EN ISO 527-2	(4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression.
斷裂伸長率	50mm/min	49	%	DIN EN ISO 527-2	(5) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
抗彎強度	2mm/min, 10 N	49	MPa	DIN EN ISO 178	(2)
彈性模數 (彎曲測試)	2mm/min, 10 N	1600	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% / 5% 5mm/min, 10 N	15/26/46	MPa	EN ISO 604	(3)
壓縮模數	5mm/min, 10 N	1400	MPa	EN ISO 604	(4)
衝擊強度(Charpy)	max. 7.5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	(5)
缺口衝擊強度(Charpy)	max. 7.5J	34	kJ/m ²	DIN EN ISO 179-1eA	
蕭氏硬度	D	75		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		104	°C	DIN EN ISO 11357	(1) Found in public sources.
使用溫度	short term	100	°C		(2) Found in public sources.
使用溫度	long term	75	°C		Individual testing regarding application conditions is mandatory.
電性特性	參數	值	單位	標準	註解
表面電阻		10 ¹⁴	Ω	-	
體積電阻		10 ¹⁴	Ω*cm	-	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.07 / 0.2	%	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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