

TECAMID 6 ID blue - Stock Shapes (rods, plates, tubes)

Chemical Designation

PA 6 (Polyamide 6)

Colour

blue grey opaque

Density

1.24 g/cm³

Fillor

detectable filler

Data generated directly after machining (standard climate Germany).

Main features

- → high toughness
- → resistant to many oils, greases and fuels
- → electrically insulating
- → good wear properties
- → good weldable and bondable
- → good slide and wear properties
- → high strength
- → good machinability

Target Industries

- → electronics
- → food technology
- → mechanical engineering

Mechanical properties	parameter	value	unit	norm		comment	
Tensile strength	50mm/min	80	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen type 1b (2) For Charpy test: support span 64mm, norm specimen. n.b. = not broken	
Modulus of elasticity (tensile test)	1mm/min	3600	MPa	DIN EN ISO 527-2	1)		
Tensile strength at yield	50mm/min	80	MPa	DIN EN ISO 527-2	<u>-</u>		
Elongation at yield (tensile test)	50mm/min	4	%	DIN EN ISO 527-2	<u>-</u>		
Elongation at break (tensile test)	50mm/min	21	%	DIN EN ISO 527-2	-		
Impact strength (Charpy)	max. 7,5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	2)		
Notched impact strength (Charpy)	max. 7,5J	4	kJ/m ²	DIN EN ISO 179-1eA			
Shore hardness	D	81		DIN EN ISO 868	<u>-</u>		
Thermal properties	parameter	value	unit	norm	······	comment	
Glass transition temperature		45	°C	DIN EN ISO 11357	1)	(1) Found in public sources.	
Melting temperature		220	°C	DIN EN ISO 11357	-	 (2) Found in public sources. Individual testing regarding 	
Service temperature	short term	160	°C		2)	application conditions is mandatory.	
Service temperature	long term	100	°C		<u>-</u>		
Electrical properties	parameter	value	unit	norm		comment	
surface resistivity	Silver electrode, 23°C, 12% r.h.	> 10 ¹³	Ω	-	1)	(1) Specimen in 20mm thickness	
Other properties	parameter	value	unit	norm		comment	
Water absorption	24h / 96h (23°C)	0.3 / 0.6	%	DIN EN ISO 62	1)	(1) Ø ca. 50mm, h=13mm (2) (+) limited resistance (3) - poor resistance	
Resistance to hot water/ bases	_	(+)		-	2)		
Resistance to weathering		-		-	3)	(4) Corresponding means no listing at UL (yellow card). The	
Flammability (UL94)	corresponding to	НВ		DIN IEC 60695-11-10;	4)	information might be taken information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.	

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