

# TECAFORM AH TF10 blue - Stock Shapes (rods, plates, tubes)

### Chemical Designation

POM-C (Polyacetal (Copolymer))

## Colour

blue

#### Density

1.46 g/cm<sup>3</sup>

## Fillers

10% PTFE

#### Main features

- → resistent to cleaning agents
- → high toughness
- → very good electrical insulation
- → good machinability
- → good slide and wear properties
- → difficult to bond

# Target Industries

- → mechanical engineering
- → automotive industry
- → electronics
- → food technology

Mechanical properties	parameter	value	unit	norm		comment	
Tensile strength	50mm/min	57	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen type 1b (2) For flexural test: support span 64mm, norm specimen. (3) Specimen 10x10x10mm (4) Specimen 10x10x50mm, modulus range between 0.5 and 1% compression. (5) For Charpy test: support span 64mm, norm specimen. (6) Specimen in 4mm thickness	
Modulus of elasticity (tensile test)	1mm/min	2900	MPa	DIN EN ISO 527-2	1)		
Tensile strength at yield	50mm/min	57	MPa	DIN EN ISO 527-2			
Elongation at yield (tensile test)	50mm/min	11	%	DIN EN ISO 527-2	-		
Elongation at break (tensile test)	50mm/min	15	%	DIN EN ISO 527-2	-		
Elexural strength	2mm/min, 10 N	82	MPa	DIN EN ISO 178	2)		
Modulus of elasticity flexural test)	2mm/min, 10 N	2700	MPa	DIN EN ISO 178	-		
Compression strength	1% / 2% 5mm/min, 10 N	15 / 30	MPa	EN ISO 604	3)		
Compression modulus	5mm/min, 10 N	2300	MPa	EN ISO 604	4)		
mpact strength (Charpy)	max. 7,5J	56	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	5)		
Notched impact strength (Charpy)	max. 2J	4	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA			
3all indentation hardness		141	MPa	ISO 2039-1	6)		
Thermal properties	parameter	value	unit	norm		comment	
Glass transition temperature		-60	°C	DIN EN ISO 11357	1)	(1) Found in public sources.	
Melting temperature		168	°C	DIN EN ISO 11357		(2) Found in public sources. Individual testing regarding application conditions is mandatory.	
Service temperature	short term	140	°C		2)		
Service temperature	long term	100	°C				
Electrical properties	parameter	value	unit	norm		comment	
surface resistivity	Silver electrode, 23°C, 12% r.h.	10 <sup>14</sup>	Ω	-	1)	(1) Specimen in 20mm thickness	
olume resistivity	Silver electrode, 23°C, 12% r.h.	10 <sup>13</sup>	Ω*cm	-			
Other properties	parameter	value	unit	norm		comment	
Water absorption	24h / 96h (23°C)	0.05 / 0.1	%	DIN EN ISO 62	1)	(1) Ø ca. 50mm, h=13mm	
Resistance to hot water/ bases		(+)		-	2)	(2) (+) limited resistance (3) - poor resistance	
Resistance to weathering		-		-	3)	(4) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or	
Flammability (UL94)	corresponding to	НВ		DIN IEC 60695-11-10;	4)		

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