

TECAFORM AH LM white - Stock Shapes (rods, plates, tubes)

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour

white opaque

Density

1.41 g/cm³

Main features

- laser-markable
- resistant to cleaning agents
- high strength
- high toughness
- good machinability
- difficult to bond
- good slide and wear properties

Target Industries

- conveyor technology
- mechanical engineering
- precision engineering
- automotive industry
- electrical engineering
- home appliances

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	50mm/min	60	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
Modulus of elasticity (tensile test)	1mm/min	2700	MPa	DIN EN ISO 527-2	1) (2) For flexural test: support span 64mm, norm specimen.
Tensile strength at yield	50mm/min	60	MPa	DIN EN ISO 527-2	(3) For Charpy test: support span 64mm, norm specimen.
Elongation at yield (tensile test)	50mm/min	11	%	DIN EN ISO 527-2	
Elongation at break (tensile test)	50mm/min	32	%	DIN EN ISO 527-2	
Flexural strength	2mm/min, 10 N	81	MPa	DIN EN ISO 178	2)
Modulus of elasticity (flexural test)	2mm/min, 10 N	2400	MPa	DIN EN ISO 178	
Impact strength (Charpy)	max. 7,5J	110	kJ/m ²	DIN EN ISO 179-1eU	3)
Notched impact strength (Charpy)	max. 7,5J	6	kJ/m ²	DIN EN ISO 179-1eA	
Shore hardness	D	80		DIN EN ISO 868	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Glass transition temperature		-60	°C	DIN EN ISO 11357	1)
Melting temperature		168	°C	DIN EN ISO 11357	
Service temperature	short term	140	°C		2)
Service temperature	long term	100	°C		
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
<i>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Resistance to hot water/ bases		(+)			1)
Resistance to weathering		-			2)
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	3)

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference dimensions (typically rods with diameter 40-60 mm according to DIN EN 15860) on extruded and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com. Technical changes reserved.