

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	(2)
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)

