

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

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

| Mechanical properties | parameter | value | unit | norm | comment |
|---------------------------------------|------------------|-------|-------------------|----------------------|------------------------------------------------------------|
| 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, nom specimen. |
| Tensile strength at yield | 50mm/min | 60 | MPa | DIN EN ISO 527-2 | (3) For Charpy test: support span 64mm, nom specimen. |
| Elongation at yield (tensile test) | 50mm/min | 11 | % | DIN EN ISO 527-2 | (4) Specimen in 4mm thickness |
| 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 | |
| Ball indentation hardness | | 140 | MPa | ISO 2039-1 | 4) |
| Thermal properties | parameter | value | unit | norm | comment |
| 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 | | |
| Electrical properties | parameter | value | unit | norm | comment |
| Other properties | parameter | value | unit | norm | comment |
| Resistance to hot water/ bases | | (+) | | - | 1) |
| Resistance to weathering | | - | | - | 2) |
| Flammability (UL94) | corresponding to | HB | | DIN IEC 60695-11-10; | 3) |

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