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

Chemical Designation
POM-C (Polyacetal (Copolymer))
Colour
white opaque
Density
$1.41 \mathrm{~g} / \mathrm{cm}^{3}$

Main features
$\rightarrow$ laser-markable
$\rightarrow$ resistent to cleaning agents
$\rightarrow$ high strength
$\rightarrow$ high toughness
$\rightarrow$ good machinability
$\rightarrow$ difficult to bond
$\rightarrow$ good slide and wear properties

## Target Industries

$\rightarrow$ conveyor technology
$\rightarrow$ mechanical engineering
$\rightarrow$ precision engineering
$\rightarrow$ automotive industry
$\rightarrow$ electrical engineering
$\rightarrow$ home appliances

| Mechanical properties | parameter | value | unit | norm |  | comment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tensile strength | $50 \mathrm{~mm} / \mathrm{min}$ | 60 | MPa | DIN EN ISO 527-2 |  | (1) For tensile test: specimen type 1b <br> (2) For flexural test: support span 64 mm , norm specimen. (3) For Charpy test: support span 64 mm , norm specimen. |
| Modulus of elasticity (tensile test) | $1 \mathrm{~mm} / \mathrm{min}$ | 2700 | MPa | DIN EN ISO 527-2 | 1) |  |
| Tensile strength at yield | $50 \mathrm{~mm} / \mathrm{min}$ | 60 | MPa | DIN EN ISO 527-2 |  |  |
| Elongation at yield (tensile test) | $50 \mathrm{~mm} / \mathrm{min}$ | 11 | \% | DIN EN ISO 527-2 |  |  |
| Elongation at break (tensile test) | $50 \mathrm{~mm} / \mathrm{min}$ | 32 | \% | DIN EN ISO 527-2 |  |  |
| Flexural strength | $2 \mathrm{~mm} / \mathrm{min}, 10 \mathrm{~N}$ | 81 | MPa | DIN EN ISO 178 | 2) |  |
| Modulus of elasticity (flexural test) | $2 \mathrm{~mm} / \mathrm{min}, 10 \mathrm{~N}$ | 2400 | MPa | DIN EN ISO 178 |  |  |
| Impact strength (Charpy) | max. 7,5J | 110 | $\mathrm{kJ} / \mathrm{m}^{2}$ | DIN EN ISO 179-1eU | 3) |  |
| Notched impact strength (Charpy) | max. 7,5J | 6 | $\mathrm{kJ} / \mathrm{m}^{2}$ | DIN EN ISO 179-1eA |  |  |
| Shore hardness | D | 80 |  | DIN EN ISO 868 |  |  |
| Thermal properties | parameter | value | unit | norm |  |  |
| Glass transition temperature |  | -60 | ${ }^{\circ} \mathrm{C}$ | DIN EN ISO 11357 | 1) | (1) Found in public sources. <br> (2) Found in public sources. Individual testing regarding application conditions is mandatory. <br> comment |
| Melting temperature |  | 168 | ${ }^{\circ} \mathrm{C}$ | DIN EN ISO 11357 |  |  |
| Service temperature | short term | 140 | ${ }^{\circ} \mathrm{C}$ |  | 2) |  |
| Service temperature | long term | 100 | ${ }^{\circ} \mathrm{C}$ |  |  |  |
| Electrical properties | parameter | value | unit | norm |  |  |
| Other properties | parameter | value | unit | norm |  | comment |
| Resistance to hot water/ bases |  | (+) |  | - | 1) | (1) (+) limited resistance <br> (2) - poor resistance <br> (3) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory. |
| Resistance to weathering |  | - |  | - | 2) |  |
| Flammability (UL94) | corresponding to | HB |  | DIN IEC 60695-11-10; | 3) |  |
|  |  |  |  |  |  |  |

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