Glass-filled Fine Polyamide PA 3200 GF for EOSINT P

Application:

PA 3200 GF is suitable for use in all EOSINT P systems with fine polyamide option. The parts fabricated from this material have excellent mechanical properties, very smooth surfaces and high accuracy. The recommended layer thickness is 0.15 mm. Unexposed powder can be reused. Depending on building time it has to be mixed with fresh powder by a ratio of 1:1 or 1:2 (old : new) with new powder to maintain constant process parameters and persisting part quality.

Typical applications of the material are housings and thermally stressed parts.

Material Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tr>
<td>Average grain size</td>
<td>Laser diffraction 60</td>
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<tr>
<td>Bulk density</td>
<td>DIN 53466</td>
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<tr>
<td>Density of laser-sintered part</td>
<td>EOS-Method</td>
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<td>DIN EN ISO 178</td>
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<td>Charpy - Impact strength</td>
<td>DIN EN ISO 179</td>
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<td>DIN EN ISO 180</td>
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<td>Ball indentation hardness</td>
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Material Data Sheet

Thermal Properties:

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<tr>
<th>Property</th>
<th>Standard</th>
<th>Value</th>
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<tr>
<td>Melting point</td>
<td>DIN 53736</td>
<td>172 - 180 °C</td>
</tr>
<tr>
<td>Vicat softening temperature B/50</td>
<td>DIN EN ISO 306</td>
<td>166 °C</td>
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<td>Vicat softening temperature A/50</td>
<td>DIN EN ISO 306</td>
<td>179 °C</td>
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* The mechanical properties depend on the x-, y-, z-position of laser-sintered part and on exposure parameters used.

The data are based on our latest knowledge and are subject to changes without notice. They do not guarantee properties for a particular part and in a particular application.