

PA 650

Nylon 12 Laser Sintering Material

Technical Data Sheet

| MATERIAL PROPERTIES | TEST | PA 650 |
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| Density, Bulk | ASTM D 1895 | 0.46 g/cc |
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| Particle Size | | |
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| d50 | Laser Diffraction | 68 µm |
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| Specific Gravity | ASTM D 192 | 1.02 g/cc |
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| THERMAL PROPERTIES | TEST | PA 650 |
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| Melting Point | ASTM D 3418 | 181°C |
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| Melt Flow Rate (180 sec., 5.0kg, 235°C) | ASTM D 1238 | 40 +/- 4g/10 min |
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| TYPICAL PART PROPERTIES | TEST | PA 650 |
|-------------------------|------|--------|
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| Tensile Strength, Ultimate | | |
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| XY Orientation | ASTM D 638 | 48 MPa / 6,962 psi |
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| Tensile Modulus | ASTM D 638 | 1,700 MPa / 247 kpsi |
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| Flexural Modulus | ASTM D 790 | 1,500 MPa / 217 kpsi |
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| Modulus of Elasticity | | |
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| Elongation at Break | | |
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| XY Orientation | ASTM D 1895 | 24% |
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| IZOD Impact Strength | | |
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| Unnotched | ASTM D 256 | 4.4 kJ/m ² |
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Warranty/Disclaimer: Actual part properties may vary significantly from those listed above based on processing parameters, operating conditions, and material usage. Advanced Laser Materials, LLC makes no warranties of materials for any particular application, nor does it make a warranty of any type, expressed or implied, including, but not limited to, the warranties of merchantability for a particular purpose.



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