

PPM for EOS Systems



Part Property Management (PPM)

The EOS Part Property Management concept creates many benefits for everyone involved in the e-Manufacturing supply chain. The designer now has

constant access to standardized Part Property Profiles (PPPs), as well as to the corresponding material data relevant for part design. Purchasing and quoting

functions will benefit from the clearly defined quality levels. These make it possible to calculate and compare offers and eliminate costly misunderstandings.

Part Property Management helps to save costs and is the basis for even more successful e-Manufacturing.



e-Manufacturing Solutions

PPM for EOS Systems

PPM Benefits

For designers:

- Clearly defined mechanical properties for part designs
- Mechanical properties available in all three directions
- Easy communication of expectations via the PPM-Standard

For purchasers:

- Standard quality levels allow rule of thumb for pricing
- Easy comparison of offers due to standardized quality
- Easy communication of expected parts specification

For service bureaus:

- Easy communication of build style/parameters
- Easier negotiations with customers due to common understanding of expectations
- PPM can be utilized independently of the system used, leading to a higher flexibility in production planning
- Due to a better communication scrap rates can be reduced
- Standardized quality and productivity levels allow for pricing standards

For quality managers:

- Quality standards provide standardized quality tolerances
- Standardized build process allows for an automated analysis via the laser-sintering system
- Quality reports generated by the system support quality assurance process
- Reliable quality standards through standard system setup, -maintenance, qualification and build process

Parameter Set	Productivity	Properties	Detail resolution
TopSpeed Layer thickness 180 µm		TopSpeed is a very economical parameter set for parts with medium to high quality requirements. In comparison with 120 µm layer thickness (Balance), production costs are typically 15 - 20 percent lower.	
Speed Layer thickness 150 µm		Slightly higher surface quality than TopSpeed and typically 10 - 15 percent. Lower production cost in comparison with 120 µm layer thickness (Balance).	
Balance Layer thickness 120 µm		The advantage of this parameter set is that the layer thickness of 120 µm offers a perfect balance between production costs, mechanics, surface quality and accuracy.	
Performance Layer thickness 100 µm		Performance parts are characterized by the highest degree of isotropic strength and rigidity.	
TopQuality Layer thickness 60 µm		This parameter set is used for very small to medium-sized parts with extremely detailed, delicate geometries and the strictest requirements in surface quality.	

The PPPs are implemented via so-called Parameter Sets. The chart illustrates the PPPs using the example of PA 2200. The PPPs can be obtained from the „Material Data Center“ at www.eos.info. For further information please refer to our whitepaper „Part Property Management“.

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