

# Powders

Supporting our customers in their adoption of additive manufacturing

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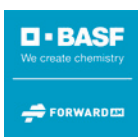
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## OUR SUPPLIERS



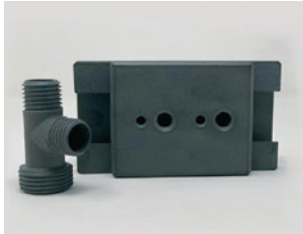
# POWDERS FOR ADDITIVE MANUFACTURING

## Our products in EMEA

### Jabil PK5000

A perfect balance of key mechanical properties resulting in a polymer that's strong, tough and ductile

This material features a unique combination of chemical and mechanical properties. Our engineered powder, which is based on PolyKetone, is an eco-friendly and non-toxic polymer made from carbon monoxide and olefins.



Avantatges	Material Properties
<ul style="list-style-type: none"> <li>Improved impact strength over PA 12 SLS and similar nylon materials</li> <li>POM like coefficient of friction and feel</li> <li>Very low moisture absorption</li> <li>Dimensional stable</li> <li>Excellent chemical resistance</li> <li>Very good elongation properties</li> <li>Wide processing window with similar processing parameters to PA 12 SLS</li> <li>Low carbon footprint</li> <li>Low temperature impact strength</li> <li>Excellent chemical resistance</li> <li>Physical properties and dimensional stability are not significantly affected by moisture</li> </ul>	<ul style="list-style-type: none"> <li>Tensile strength: 53 MPa</li> <li>Young's modulus: 1349 MPa</li> <li>Elongation at break: 41 %</li> <li>Izod impact unnotched: 95 kJ/m<sup>2</sup></li> <li>HDT B (0.45 MPa): 157 °C</li> </ul>



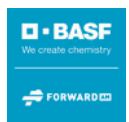
### Ultrasint® AP26

Zero waste material with affordable cost and high detail resolution enabling industrial applications

The new Ultrasint® AP26 is a Polybutylene terephthalate (PBT), is a high-strength, thermoplastic material commonly used in traditional injection-molded electronic auto parts due to its electronic insulation and solvent resistance. Its eco-friendliness having very stable mechanics while using 100% of reused material, resulting in zero powder waste.



Avantatges	Material Properties
<ul style="list-style-type: none"> <li>Up to 100% of reusability rate – Zero waste!</li> <li>Exceptional detail resolution</li> <li>Excellent surface finish</li> <li>Lowest price per kg in the PBF portfolio</li> <li>High process stability</li> <li>Easy finishing incl. smoothing, dyeing and coating</li> <li>Color – Cream</li> </ul>	<ul style="list-style-type: none"> <li>Tensile strength: 40 MPa</li> <li>Young's modulus: 2500 MPa</li> <li>Elongation at break: 2,5 %</li> <li>Charpy impact unnotched: 12 kJ/m<sup>2</sup></li> <li>HDT B (0.45 MPa): 94 °C</li> </ul>



### Luvosint PA12 9270 BK

As a black colored Polyamide 12 powder LUVOSINT PA12 9270 BK is perfectly suitable for automotive applications but also for industrial manufacturing of black components in general.

In addition, LUVOSINT PA12 9270 BK material is a sustainable improvement of current PA12 materials in the market. It can be recycled entirely in the following print jobs. This avoids waste and makes PA12 laser sintering much more cost effective.



Avantatges	Material Properties
<ul style="list-style-type: none"> <li>High molecular weight offers strong mechanic performance (&gt; 50 MPa).</li> <li>Colored (compounded) truly black, perfect for automotive.</li> <li>100 % recyclability, no used powders for disposal.</li> <li>Improved post processing due to high mechanical performance level.</li> <li>Cryogenically milled powder.</li> <li>Cost effective.</li> </ul>	<ul style="list-style-type: none"> <li>Tensile strength: 49 MPa</li> <li>Young's modulus: 1810 MPa</li> <li>Elongation at break: 9 %</li> <li>Charpy impact unnotched: 12 kJ/m<sup>2</sup></li> <li>HDT B (0.45 MPa): 95 °C</li> </ul>

