



## Polyamide Compounds for Versatile Applications

Ascend Performance Materials is the world's largest fully integrated PA 6.6 producer and a premium global supplier of high-quality plastics, fibres and chemicals. Headquartered in Houston, Texas, Ascend has modern and innovative manufacturing facilities for the production of engineering plastics in the United States, Asia and Europe.

K.D. Feddersen is the distributor for the PA product families Vydyn<sup>®</sup> and HiDura<sup>®</sup> in Europe.



## Portfolio

### Vydyn<sup>®</sup>

The Vydyn<sup>®</sup> product family is tried and tested for use in various applications from engine compartment to E&E to consumer goods. It includes a broad portfolio of unreinforced PA 6.6 and PA 6 compounds as well as grades with up to 50 % glass fibre reinforcement, mineral filling, glass/mineral filling or impact modification.

The engineering plastics offer high quality and stiffness, strength, heat resistance, creep resistance under load and chemical resistance. Some Vydyn<sup>®</sup> grades meet the requirements for flame retardancy according to UL94 V0.

### HiDura<sup>®</sup>

The HiDura<sup>®</sup> product family comprises long-chain PA 6.10 and PA 6.12 compounds developed for demanding applications. They offer improved resistance to chemicals and tribological properties with regards to sliding behaviour and abrasion .

The polyamide compounds are perfect for applications such as brake lines, cable ties, connectors or battery seals. K.D. Feddersen offers unreinforced, up to 30 % glass fibre reinforced and impact-modified grades for injection moulding.

## People. Think. Plastics.

We continuously think about polyamide solutions with you. Benefit from our application-technical support. We aim to meet your requirements with the right material, service and customised logistics concepts.

## Industries

With our Ascend portfolio we offer a wide range of material solutions for a variety of industries and applications, meeting the stringent requirements of e-mobility, automotive, E&E, consumer goods and other industries.

Your partner for:



Polymer	Properties	Industries	Applications
<b>PA 6.6 non-reinforced grades for injection moulding</b>	Lubricated Heat-stabilised Nucleated (fast crystallisation) Highly nucleated	Automotive Cable connectors und connection elements Industrial Applications Consumer goods	Cable ties and fasteners Turbocharger air ducts Lighter Pulleys
<b>PA 6.6 non-reinforced grades for extrusion</b>	Food approval according to FDA and EU 10.2011 Heat stabilised Improved melt consistency Flexibility	Consumer goods Industrial Applications Automotive	Flexible food packaging Monofilaments Rods and sheets Tubing
<b>PA 6.6 impact-modified grades</b>	Medium and improved flow properties Heat-stabilised Dry impact resistant and cold-impact-resistant grades Glass fibre reinforced	Automotive E-Mobility Industrial Applications	Cable connectors Bonnet and break release levers Lumbar support adjuster Buckles
<b>PA 6.6 glass fibre reinforced grades</b>	Glass fibre content from 15 % to 50 % Grades with improved flow properties Hydrolysis-stabilised High heat-stabilised Electrically neutral Laser marking	Automotive E-Mobility Consumer goods E&E	Engine mountings Oil sump Bonnet Kitchenware Thermostats Connectors
<b>PA 6.6 and PA 6 flame-retardant grades</b>	Improved flow properties High elongation at break (>25 %) UL 94 V0 at 0,2 mm, GWFI 960 °C, RTI 130-150 °C at 0,4 mm Free of halogens and red phosphorus Electrically neutral grades CTI >600 V	E-Mobility E&E Automotive Transportation	Contact clamp Connectors Battery housings Switch housing Sockets Terminal blocks High voltage switches
<b>PA 6 and PA 6.6/6 compounds</b>	Impact-modified Glass fibre reinforced Glass bead reinforced Mineral reinforced Carbon fibre reinforced UV-stabilised grades	Automotive Industrial Applications Building sector E&E	Junction boxes Connectors Substructures of solar modules Structural components Fastening systems Housings Panels
<b>PA 6.10 and PA 6.12 compounds</b>	Non-reinforced Glass fibre reinforced grades up to 30 % Impact-modified grades	Automotive Industrial Applications E&E	Brake lines Cable connectors Connectors Battery seals

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