

Aegis® Nylon 6 Packaging Grade Resins

**FRESHNESS IS
OUR BUSINESS**

ADVANSIX

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Every day, films made with AdvanSix Aegis® nylon 6 resins are helping to ensure food products and other valuable goods are securely transported and safely consumed – from brand owners and manufacturers to homes and businesses around the world.

Widely used to manufacture vacuum bags, casings and pouches for packaging, Aegis® resins deliver outstanding performance that is valued by film producers and their customers. The strength and barrier qualities of Aegis® resins help maintain everything from the aroma of fine ground coffees to the freshness of high-value steaks, and the integrity of life-saving medical devices. These resins offer outstanding performance that provides improved protection and extended shelf life for food and other products in consumer and industrial markets. They also help maintain the aroma and taste of foods. Good flexibility and performance over a wide range of temperatures makes them a material of choice for many applications.



Applications

From flexible packaging for food and consumer products to vacuum bagging for industrial goods, Aegis® packaging grade resins are widely used in a variety of applications, including:

- Processed meats and cheeses
- Coffee, nuts and spices
- Snacks and frozen foods
- Pet foods
- Detergent bags
- Composite fabrications
- Medical devices
- Novelty balloons

Performance

Aegis® resins are specifically engineered for packaging applications, and are available in low, medium and high viscosity grades with a variety of additive options. Excellent processability during extrusion and consistent quality ensures optimal process performance and end product



quality. They are suitable for fabricating film through nonoriented and biaxially-oriented (BOPA) cast film extrusion, as well as multi-layer blown film extrusion. These films can be coextruded or laminated with other materials or films, such as polyethylene or ethylene vinyl alcohol (EVOH), to achieve the required optimal packaging properties.

Key Nylon Film Benefits

| | |
|----------------------------------|------------------------------------|
| Tear and puncture resistance | Superior aroma and gas barrier |
| Flex crack and retort resistance | Superior thermoformability |
| Oil, fat and grease resistance | Superior flexibility and toughness |
| Excellent transparency | Heat resistance for hot filling |

Regulatory Compliance

AdvanSix has more than 50 years of experience in the development and production of packaging resin that is safe and reliable for consumers and businesses. Aegis® packaging resins are manufactured to meet the stringent standards required of materials involved in the processing, handling and packaging of food. They meet all applicable U.S. Food and Drug Administration (FDA) and European Union (EU) food grade regulations, as outlined in FDA 21 CFR 177.1500 and Regulation (EU) No. 10/2011.

Why AdvanSix

Consistent quality and supply. AdvanSix has been a high-quality and reliable global supplier of resin to the packaging industry since 1955, and is one of the largest fully-integrated manufacturers of caprolactam and nylon resin in the world.

Industry-leading research and development capabilities. State-of-the-art analytical, application development, and research and development labs in the U.S. which include laboratory-scale polymer reactors, blown film and cast film equipment, enable AdvanSix to develop nylon formulations that meet customer specifications.

Extensive experience in resins applications. AdvanSix nylon 6 resins are used extensively in many consumer and industrial products on the market today – from packaging and filaments to engineering plastics and carpets. For more information on industry-specific testing and certification requirements, or to learn how we can help develop your packaging application, contact our technical and sales support team today at:

AdvanSix.com/NylonSolutions.



Aegis® Nylon 6 Packaging Grades

| Grade | RV | Additive | Technology |
|---------------|-----|--------------------------|------------------------|
| Aegis® H85NP | 3.2 | None | Extrusion coating/BOPA |
| Aegis® H85QP | 3.2 | Lubricated | Extrusion coating/BOPA |
| Aegis® H100NP | 3.4 | None | Cast/BOPA |
| Aegis® H100QP | 3.4 | Lubricated | Cast/BOPA |
| Aegis® H100MP | 3.4 | Lubricated and nucleated | Cast/BOPA |
| Aegis® H120ZP | 3.6 | None | Cast/blown film |
| Aegis® H120MP | 3.6 | Lubricated and nucleated | Cast/blown film |
| Aegis® H135ZP | 3.8 | None | Blown film |
| Aegis® H135QP | 3.8 | Lubricated | Blown film |
| Aegis® H135MP | 3.8 | Lubricated and nucleated | Blown film |

Contact AdvanSix

To learn more about the benefits of Aegis® Nylon Resins, visit [AdvanSix.com/NylonSolutions](https://www.advanSix.com/NylonSolutions) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

AdvanSix

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