



# YOUR SOLUTION FOR HIGH-PERFORMANCE ENGINEERED PLASTICS

## Aegis® Copolyamide Compounding Grade

AdvanSix is a leading provider of nylon solutions, with a long history of innovation and reliability. As the marketplace for engineered plastics evolves, AdvanSix continues to create new products to meet the aesthetic and high-performance needs of customers around the world.

The new copolyamide compounding grade from AdvanSix, named Aegis® H55C2ZP, was designed with these requirements and customers in mind. Aegis® H55C2ZP can help close the gap for critical quality parameters especially where nylon 6 alone doesn't achieve those parameters.

Aegis® H55C2ZP is ideal for applications that require a combination of lower warpage, improved dimensional stability, excellent surface finish and higher toughness. Aegis® H55C2ZP can serve your needs in automotive, industrial and consumer applications, especially high-gloss filled parts which don't require painting. Together with enhanced processability, it delivers unmatched benefits for demanding applications.

### Typical Performance Comparison for Aegis® H55C2ZP (30% GF Reinforced Parts)

Items	PA6 (H8202NLB)	PA66	PA6/66 (H55C2ZP)	Remarks
Surface Finish	O	-	+	Aegis® H55C2ZP yields excellent surface finish for glass-filled molded parts
Warpage	O	-	+	Significant improvement
Shrinkage	O	-	+	Improved due to lower crystallinity
Toughness	O	-	+	Aegis® H55C2ZP exhibits improved toughness in glass-filled applications in wet or dry conditions at normal or low temperatures.
Processability	O	-	+	Aegis® H55C2ZP can be processed at lower melt temperatures which enables compounding with heat-sensitive additives with decreased degradation
Density	O	O	O	Similar
Strength	O	+	-	Similar to baseline (DAM), ~ 10% lower (COND)
Modulus	O	+	-	Similar to baseline (DAM), ~ 15% lower (COND)
Thermal Resistance (HDT)	O	+	O	Similar to baseline

O = Baseline  
DAM = Dry as Molded  
COND = 2.7% H<sub>2</sub>O

## Available Now

Aegis® H55C2ZP is a copolyamide compounding grade available today in commercial quantities, and can be supplied in either bag or Gaylord packaging. It is fully qualified in production on our flexible polymerization asset, as well as in downstream use. For more information, contact your AdvanSix representative.



### 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**  
300 Kimball Drive, Suite 101  
Parsippany, NJ 07054

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