

Aegis® PIR-H55ZI Nylon 6 Homopolymer



Description

Aegis® PIR-H55ZI resin from AdvanSix contains 100% post-industrial recycled (PIR) raw materials¹ while providing the same top performance and processability as Aegis® H55ZI, its standard, non-recycled counterpart. Aegis® PIR-H55ZI is an unterminated, medium viscosity, nylon 6 homopolymer well-suited for monfilament and multifilament applications as well as carpet fiber.

Specification	Test Method	Unit	Value
Parameter			
Viscosity, FAV	ASTM D-789		55 +/- 3
96% SAV			2.72
Moisture Content	ASTM D-6869	%	Max. 0.08
Extractable Content	SOP-702-307	%	Max. 1.2

Typical Properties	Test Method	Unit	Value
Parameter			
Melting Point	ASTM D-3418	°C (°F)	220 (428)
Density (Typical)	ASTM D-1505	g/cm ³	1.13
Forms			Pellets

Processing Guidelines

Material Handling

Aegis® PIR-H55ZI is supplied in sealed containers and drying prior to processing is not required. However, higher moisture is the primary cause of processing issues. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 80°C (176°F) is recommended. Drying time is dependent on moisture level. More information about safe handling procedures can be obtained by requesting the Safety Data Sheet on [AdvanSix.com](https://www.advansix.com).

¹Using an industry-accepted mass balance method, AdvanSix allocates recycled material into 100% PIR Aegis® resins. PIR grades are certified by an independent third-party organization (SCS Global Services) for recycled content, with annual audits.

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.



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)

Although AdvanSix Inc. believes that the information contained herein is accurate and reliable, it is presented without guarantee or responsibility of any kind and does not constitute any representation or warranty of AdvanSix Inc., either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials, such as other raw materials, application, formulation, environmental factors and manufacturing conditions among others, all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liabilities (including, but not limited to, risks relating to results, patent infringement, regulatory compliance and health, safety and environment) related to the use of the products and/or information contained herein.

AdvanSix
300 Kimball Drive, Suite 101
Parsippany, NJ 07054



Aegis® is a registered trademark of AdvanSix Inc.
October 2021-2
©2021 AdvanSix Inc. All rights reserved.

