

# Aegis® PIR-H55ZIE Nylon 6 Homopolymer



## Description

**Aegis® PIR-H55ZIE** resin from AdvanSix contains 100% post-industrial recycled (PIR) raw materials<sup>1</sup> while providing the same top performance and processability as Aegis® H55ZIE, its standard, non-recycled counterpart. Aegis® PIR-H55ZIE is an unterminated, medium viscosity, nylon 6 homopolymer well-suited for monofilament and multifilament applications, including carpet fiber (natural and SDN) and industrial textiles.

Specification	Test Method	Unit	Value
<b>Parameter</b>			
Viscosity, FAV	ASTM D-789		55 +/- 3
96% SAV			2.72
Moisture Content	ASTM D-6869	%	Max. 0.10
Extractable Content	SOP-702-307	%	Max. 0.9

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

## Processing Guidelines

### Material Handling

Aegis® PIR-H55ZIE 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).

<sup>1</sup>Using 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)

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