

Aegis® PIR-H55ZIE Nylon 6 Homopolymer



Description

Aegis® PIR-H55ZIE resin from AdvanSix contains 100% post-industrial recycled (PIR) raw materials¹ 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
Parameter			
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
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-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.

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)

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