

DESCRIPTION

Alkadyne HDF193N is a non-pigmented high molecular weight bimodal High Density Polyethylene. Alkadyne HDF193N contains antioxidants to protect it during extrusion and end use.

APPLICATION

Alkadyne HDF193N has been designed as a base resin for pipe striping and jacket compounds. When Alkadyne HDF193N is compounded with the desired pigment and UV stabiliser, as prescribed in the relevant clauses of AS/NZS 4130 and AS/NZS 4131, the compounded material is suitable for use as a striping or jacketing product for the manufacture of HDPE PE100 pressure pipes¹. Alkadyne HDF193N is not intended for solid wall coloured pipe applications. Addition of a UV stabilizer should be considered where the intended application involves intermittent to extended exposure to sunlight. Suitability for use in any application should be determined by appropriate performance testing.

PRODUCT SAFETY

For product safety information please refer to the Safety Data Sheet at [genos.com](https://www.genos.com).

Polymer Properties	Value ²	Units	Test Method
Melt Index @ 190°C, 5.0 kg	0.31	g/10 min	ASTM D1238
Melt Index @ 190°C, 21.6 kg	8.9	g/10 min	ASTM D1238
Density	0.952	g/cm ³	ASTM D1505/D2839

Pipe Properties	Value ²	Units	Test Method
Oxidative Induction Time (210°C)	>20	Minutes	ISO 11357-6
5.4 MPa, 80°C Pressure	>165	Hours	AS/NZS 1462.6

1. Refer Plastics Industry Pipe Association of Australia Industry Guidelines for Polyethylene Pipe and Fittings Compounds (POP004). For up to date information, refer to [pipa.com.au](https://www.pipa.com.au)
2. Typical values - not to be construed as specifications.

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