

HDPE**HDPE 5000S****HIGH DENSITY POLYETHYLENE (HDPE)**

This high-density polyethylene grade is formulated for extrusion into monofilament and multifilament yarn. It offers strong resistance to heat, cold, abrasion and chemical attack together with high tensile strength, supporting durable filament products for netting and cordage.

Typical Application

- Monofilament and multifilament yarn extrusion
- Nets
- Ropes and cordage

Product Characteristics

- High tensile strength and toughness
- Good abrasion and chemical resistance
- Suitable for high-speed filament spinning
- Low ash content

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (190°C/2.16kg)		1	g/10 min
Density		0.951	g/cm ³
Ash Content		≤0.02	%
Tensile Strength		≥25	MPa
Elongation at Break		≥800	%

1. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.

2. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.

3. Ash, tensile and elongation figures are drawn from a separate distributor compilation of the same producer's published typical values, cross-checked against matching melt flow, density and origin data.