

HDPE**HDPE GF 7750 M2****HIGH DENSITY POLYETHYLENE (HDPE)**

This grade is a high-density polyethylene of medium molar mass with a special narrow molecular weight distribution, appreciated for monofilament applications. It contains a lubricant and is an easy-flowing polymer with good processing performance on monofilament production lines. Monofilaments made from this resin exhibit excellent tensile strength and high elongation at break. This product is not intended for use in medical and pharmaceutical applications.

Typical Application

- Binding twine and ropes
- Fishing nets
- Geotextiles and protective netting for agriculture and construction

Product Characteristics

- Narrow molecular weight distribution for consistent monofilament drawing
- High rigidity with good heat and low-temperature impact resistance
- Contains an internal lubricant for smooth extrusion on monofilament lines
- High tenacity with good wear and chemical resistance

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (190°C/2.16 kg)	GB/T 3682-2000	1.06	g/10 min
Melt Flow Rate (190°C/5.0 kg)	ISO 1133-1	3.3	g/10 min
Melt Flow Rate (190°C/21.6 kg)	ISO 1133-1	33.0	g/10 min
Density	GB/T 1033.2-2010	0.9564	g/cm ³
Peak Melting Point	ISO 3146	135	°C
Tensile Strength at Yield	GB/T 1040.2	25.1	MPa
Nominal Tensile Strain at Break	GB/T 1040.2	1041	%

Processing Guidelines

Recommended extrusion temperature range 220-260°C. The narrow molecular weight distribution and internal lubricant give good, stable processing performance on monofilament production lines.

1. This grade shares its published family datasheet with the producer's 5000S monofilament/yarn grade.
2. 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.
3. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.