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JAM PETROCHEMICAL COMPANY

HIGH DENSITY POLYETHYLENE - HDPE 5000S

HDPE HD5000S is a high-density polyethylene resin engineered for the monofilament extrusion industry, offering an exceptional balance of high tenacity and robust mechanical strength. Its excellent processability enables high production rates for demanding applications like ropes, fishing nets, and agricultural fabrics. Furthermore, its compliance with food contact regulations makes it a safe choice for woven sacks.

Producer	Applications	Additives
JAM	Its strength and processability make it ideal for high-performance filaments used in ropes, nets, technical textiles, and woven sacks.	Antioxidants Acid scavengers Antiblock agents Processing aids

Typical Properties			
Resin Properties	Unit	Typical Value	Test Method
Density	g/cm ³	0.954	ASTM D1505
Melt Index (190°C/ 2.16Kg)	g/10 min	0.8	ASTM D1238
Vicat Softening Point	°C	125	ASTM D1525
Flexural Modulus	MPa	1100	ASTM D790
Tensile Strength at Yield	MPa	24	ASTM D790
Tensile strength at break	MPa	39	ASTM D638
elongation at break	%	>1000	ASTM D638
HDT	°C	75	ASTM D648
Notched Izod Impact Strength	J/m	400	ASTM D256/A