

PE HD03490 NP

High-Density Polyethylene

DESCRIPTION

PE HD03490 NP is a high density 1-hexene copolymer with a bimodal molecular weight distribution providing excellent processability and superior mechanical properties. The grade combines high stiffness and long-term strength with outstanding creep resistance. It is produced by the same technology as PE100.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Flow Rate (190 °C/5 kg)	0.3	g/10 min	ISO 1133-1
Density	0.949	g/cm ³	ISO 1183-1
Volatile Content	≤350	mg/kg	EN 12099
Tensile Stress at Yield	24	MPa	ISO 527-1
Tensile Strength at Break	35	MPa	ISO 527-1
Elongation at Break	>1200	%	ISO 527
Flexural Modulus	>850	MPa	ISO 178
Vicat Softening Point (10 N)	126	°C	ISO 306
OIT (210 °C)	>20	min	ISO 11357-6
Resistance to slow crack propagation	>1000	hour	ISO 13479

NOTES / TEST CONDITIONS

* The values given are typical values measured on the product. These values should not be considered as specification.

TYPICAL APPLICATIONS

PE HD03490 NP is natural pipe grade used for extrusion of non-pressure pipes and fittings for water supply.