Technical Data Sheet

PE HD03490 NP

High-Density Polyethylene

PRODUCT 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 APPLICATIONS

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

Properties	Conditions	Method	Typical values*	Units
Rheology				
Melt Flow Rate	190 °C/5 kg	ISO 1133-1	0.3	g/10 min
Physical				
Density		ISO 1183-1	0.949	g/cm^3
Volatile Content		EN 12099	≤350	mg/kg
Mechanical				
Tensile Stress at Yield		ISO 527-1	24	MPa
Tensile Strength at Break		ISO 527-1	35	MPa
Elongation at Break		ISO 527	>1200	%
Flexural Modulus		ISO 178	>850	MPa
Thermal				
Vicat Softening Point	10 N	ISO 306	126	°C
OIT	210 °C	ISO 11357-6	>20	min
Hydrostatic				
Resistance to slow crack propagation		ISO 13479	>1000	hour

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

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