

TECHNICAL DATA SHEET

Product Name: HDPE
Product Grade: PN049

Product Description:

Sinopec HDPE pipe grade has broad or bimodal distribution of molecular weight. It has strong creep resistance and good balance of rigidity and toughness. It is very durable and has low sag when being processed. Pipes produced using this resin have good strength, rigidity and impact resistance and excellent property of SCG and RCP.

Physical Properties:

Typical performance index (Not Warranted Value)

Item		Unit	Quality Index	Typical Value	Method
Appearance of Granules	Large & Small Granule	/ kg	Report Value	0	SH/T 1541.1-2019
	Colour Granule	/ kg	≤ 20	4	
	Snakeskin Grain &Trailing Grains	/ kg	Report Value	7	
Density (at 23 Degree)		g/cm3	0.946-0.952	0.95	GB/T 1033.2-2010
Melt Mass-Flow Rate (MFR)		g/ 10min	0.2-0.35	0.24	GB/T 3682-2018
Oxidation Induction Time (OIT, at 210 Degree)		min	≥40	70.9	GB/T 19466.6-2009
Tensile Stress at Yield		MPa	≥ 21.0	13.1	GB/T 1040.2-2006
Nominal Tensile Strain at Break		%	≥ 350	561	GB/T 1040.2-2006
Charpy Notched Impact Strength		kJ/m2	≥20	36.7	GB/T 1043.1-2008
Flexural Modulus		MPa	≥760	1106	GB/T 9341-2008
Temperature of Deflection under Load		Degree	≥50	77	GB/T 1634.2-2004
Moisture Content		mg/ kg	≤300	12	SH/T 1770-2010



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Product Characteristics:

- Strong creep resistance
- Good balance of rigidity and toughness

Manufacturer:

Zhongsha Refinery Co., Ltd.

Typical Applications:

HDPE pipe grade can be used in the production of pressure pipes, such as pressurized water pipes, fuel gas pipelines and other industrial pipes. It can also be used for making non-pressure pipes such as double-wall corrugated pipes, hollow-wall winding pipes, silicon-core pipes, agricultural irrigation pipes and aluminum- plastics compound pipes. In addition, through reactive extrusion (silane cross-linking), it can be used for producing crosslinked polyethylene pipes (PEX) for supplying cold and hot water.