



中国石化
SINOPEC

TECHNICAL DATA SHEET

Product Name: **Pipe Grade**

Product Grade: **HDPE-YGH041T**

Product Description:

The product contains uniformly dispersed carbon particles and reliable stabilizers, which ensure the product with high quality mechanical strength, excellent weather ability, long-term stability, excellent resistance to rapid cracking propagation and slow cracking growth. It is an ideal base resin for pressurized pipes.

Physical Properties:

Typical performance index (Not Warranted Value)

Item	Unit	Quality Index	Typical Value
MFR	g/10min	0.26-0.44	0.27
Tensile Strength at yield	MPa	≥ 23.0	24.2
Tensile Modulus	MPa	≥ 960	990
Tensile Fracture Nominal Strain	%	$\geq 5.5 \times 10^2$	5.9×10^2
Density	g/cm ³	0.9600 \pm 0.0030	0.9600
OIT(210°C)	Min	≥ 25	45.1

Product Characteristics:

- high quality mechanical strength
- excellent weather ability
- long-term stability
- excellent resistance to rapid cracking propagation
- slow cracking growth

Manufacturer:

Sinopec Shanghai Petrochemical

Typical Applications:

It is used to produce water pipes, gas pipes, drain, discharge pipes of seawater, thin-wall bellows and industrial pipes.