TECHNICAL DATA SHEET

HDPE 4920N

High Density Polyethylene Pipe Resin

PIPE

RESIN PROPERTIES [1]

	Method	Unit	Typical Value
Melt Flow Index	D1238	g/10 min	–
190 °C/5.0 kg	–	–	0.23
190 °C/21.6 kg (HLMI)	–	–	8.0
Density	D792	g/cm^3	0.950
Melting Temperature	D3418	°F	269

MECHANICAL PROPERTIES [1] [2]

	Method	Unit	Typical Value
Tensile Strength at Yield	D638	psi	3,550
Elongation at Break	D638	%	800
2% Flexural Modulus	D790	psi	140,000
Slow Crack Growth- PENT (80 °C, 2.4 MPa)	F1473	hr	>2,000
Strain Hardening Modulus	ISO 18488	MPa	> 65
Hydrostatic Design Basis[3]	D2837	psi	1600 (73 °F) 1000 (140 °F)
Resistance to Rapid Crack Propagation (S4 test, Pc at 32 °F)	ISO 13477	bar	>10 bar

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) The data listed were determined on compression-molded specimens and may, therefore, vary from specimens taken from molded articles.
(3) When HDPE 4920N is blended with an approved carbon black masterbatch that results in a 2% to 3% level of carbon black in the final pipe, the resulting material used in the production of pipe will meet or exceed the minimum cell classification of PE445574C per ASTM D3350.

CHARACTERISTICS:

- Multimodal enhanced resin made with Borstar®3G Technology
- Excellent processing and melt strength
- ASTM PE4710
- ASTM D3350 cell class 445574C CC3[3]
- NSF/ANSI 14
- NSF/ANSI/CAN 61
- NSF/ANSI 358-1

APPLICATIONS:

- Pressure pipe
- Gas distribution
- Oil & gas gathering
- Industrial piping
- Potable water
- Geothermal
- Sewer
- Sea outfall
- High voltage cable protection