

# HDPE 4920N

**High Density Polyethylene Pipe Resin** 

PIPE

### **RESIN PROPERTIES**<sup>(1)</sup>

	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/cm³	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	F1473	hr	>2,000
(80 °C, 2.4 MPa)			
Strain Hardening Modulus	ISO 18488	МРа	> 65
Hydrostatic Design Basis <sup>3</sup>	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.

All tests were run under laboratory conditions using American Society for Testing and Materials standards (where applicable) or internal testing procedures. The data is offered in good faith but is intended as a general guide only and does not necessarily represent results that may be obtained elsewhere. The use of Bayport Polymers LLC ("Baystar") products must be guided solely by the user's own methods for selection of proper formulation to ascertain fitness for any specific application. Baystar disclaims any responsibility for misuse or misapplication of its products and the user expressly assume all risk and liability, whether based in contract, tot or otherwise, in connection with the use of the information contained in the data or the use of the product. The data is provided without terference to any lineticular property issues, as well as federal's liability, whether based in contract, tot or otherwise, in connection with the use of the information contained in the data or the use of the product. The data is provided without terference to any lineticular property issues, as well as federal's liability and customer's exclusive remedy for any claims raining out of sales of its products are expressly limited, a customer epitor in the sale of the product. The data is provided without the exceent the purchase price plant terms portation charges therein in respect to a claim. In addition to any prohibitions of use (I may), Baystar may form internal testing procedures. All products are subject to its standard terms and conditions at out of mays of mays and a plant as plant and the exceent the purport. The data is provided without applicables for plant terms and conditions at out of mays of mays and any data and terms and conditions at set out in may data and terms and conditions at out of mays of mays and any form exceent any provide standard terms and conditions at out of mays and thered, are proved to a standard terms and conditions at set out in any form schedular guided terms and conditions at out of mays an

# CHARACTERISTICS:

- Multimodal enhanced resin made with Borstar<sup>®</sup>3G Technology
- Excellent processing and melt strength
- ASTM PE4710
- ASTM D3350 cell class 445574C CC3<sup>3</sup>
- 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

