

# P901BK

## High Density Polyethylene (HDPE)

### Description:

P901BK (PE 100) is HDPE pipe compound produced by an advanced bimodal Hostalen Process. It contains a combination of additives, stabilizers and well dispersed carbon black; great processability; high thermal stability; good chemical resistance and long service life. P901BK is specially created for producing a high performance in water pipe applications; drinking water, pressure, sewage and drainage pipes. It meets the pipe compound requirement of ISO 4427 and AS/NZS 4131.

Physical Properties:	Method	Unit	Value*
Melt Flow Rate (190°C,5kg)	ISO 1133	g/10min	0.25
Density	ISO 1183	g/cm <sup>3</sup>	0.959
Tensile Strength at Yield	ISO 527	MPa	22
Tensile Strength at Break	ISO 527	MPa	≥ 31
Elongation at Break	ISO 527	%	≥750
Carbon Black Content	ISO 6964	%wt	2.25
Carbon Black dispersion	ISO 18553	-	≤ grade 2.5
Water Content	ISO 15512	ppm	≤ 250
Volatile Content	EN 12099	ppm	≤350
Oxidation Induction time at 210°C	ISO 11357	min	>50
ESCR (Condition B, F50)	ASTM D1693	hrs	>10000
Minimum Required Strength (MRS)	ISO 9080	MPa	10

### Processing Technique

#### Recommended Process Temperature 190-220 oC

\*\*However, the actual processing conditions depend on size, machine and any related processing

\*Preliminary values are subjected to change in the interest of product development without notification.

**Remark:** The values presented on the above are typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.

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