

POLIMAXX P901BK

IRPC Public Company Limited - High Density Polyethylene

General Information

Product 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.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Carbon Black • Unspecified Additive		
Features	• Chemical Resistant • Good Thermal Stability • Good Processability • High Density		
Uses	• Piping		
Agency Ratings	• AS/NZS 4131	• ISO 4427	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (ESCR) (F50)	> 10000	hr	ASTM D1693B
Carbon Black Content	2.3	%	ISO 6964
Volatiles	< 350	ppm	EN 12099
Water Content	< 250	ppm	ISO 15512
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	3190	psi	ISO 527-2
Tensile Stress (Break)	> 4500	psi	ISO 527-2
Tensile Strain (Break)	> 750	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (410°F)	> 50	min	ISO 11357
Additional Information	Nominal Value	Unit	Test Method
Minimum Required Strength	1450	psi	ISO 9080

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	374 to 428	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

