Manufacturer website: https://www.irpc.co.th/en/

POLIMAXX

TECHNICAL DATA SHEET
REV20240408

P901BK-SP

High Density Polyethylene Compound (HDPE Compound) / Pipe Extrusion

PRODUCT DESCRIPTION

P901BK-SP is Black HDPE Compound with Specially designed for shell protection (only for Bivalves species of Martesia Striata, Family Pholadidae). It contains add up properties from general PE100 materials. Suitable for the piping system under Brackish water.

INDUSTRY

- Natural Piping system especially for the Brackish water

PRODUCT FEATURE

- Resistant to Bivalves property
- Great processibility and Stability

REGULATION COMPLIANCE

- Other regulation : please contact our staff

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE*
Melt Flow Rate (190°C / 5 kg)	ISO 1183	g/10 min	0.25
Density	ISO 1183	g/cm^3	0.959
Carbon Black Content	ISO 6964	%wt	2.25
Carbon Black Dispersion	ISO 18553	-	≤ grade 2.5
Water Content	ISO 15512	ppm	≤ 250
Volatile Content	ISO 12099	ppm	≤ 350
MECHANICAL PROPERTIES			
Tensile Strength at Yield	ISO 527	MPa	22
Tensile Strength at Break	ISO 527	MPa	≥ 31
Elongation at Break	ISO 527	%	≥ 750
ESCR (Condition B, F50)	ASTM D1693	hrs	> 10,000
THERMAL PROPERTY			
Oxidation Induction time at 210°C	ISO 11357	min	> 50

*The properties can vary significantly depending on the incoming source and supply capability.

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

IRPC Public Company Limited | 555/2 Energy Complex, Building B, 6th Floor, Vibhavadi Rangsit Rd., Chatuchak, Bangkok 10900 THAILAND.
HTTPS://POLIMAXX.IRPC.CO.TH | TEL : +66(0) 765-7000

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PROCESSING TECHNIQUE

Process Temperature 190 - 220°C

*However, the actual processing conditions depend on mold design, power of machine, equipment and other environments.

PRODUCT PACKAGING

- 25 kg loose bag
- 750 kg Jumbo bag

For further information, contact the IRPC's sales representative.

STORAGE

The resin should be stored in a dry location with good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Resin should be protected from direct sunlight, temperatures above 38°C (100°F) and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The container should be kept closed to prevent contamination. For the additional recommended storage conditions, please refer to SDS.

SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.

RECYCLING

It is an undisputed fact that the product can be recycled or disposed of without any problem.

DISCLAIMER

The data indicated above are the results of our investigations, knowledge and correspond to the state of the art as of the date of publication and the data refer to the state of the laws at the date of issue and this information expires after a break in delivery lasting more than 12 months or in case of regulatory changes. This statement is not intended and should not be construed as specification, warranty or representation of any sort for which IRPC would be legal responsibility. The applicability or the accuracy of this statement or the suitable of our products cannot be guaranteed because the conditions of use on the part our uses are beyond our control. IRPC gives no guarantees or makes no warranties which extend beyond the description above herein. Nothing herein shall constitute any implied guaranty or warranty of merchantability or fitness for a particular purpose. In the case that IRPC's products are used in combination with other materials, no liability can be accepted. When not utilized in combination with any third-party products, the information included above refers only to our products. Please ask IRPC for a new information if needed. All terms and conditions regarding the supply of IRPC's products shall be subject to IRPC's Policy, in the case of a dispute, the Company's decision is final and is not subject to any appeal.

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