



# **SABIC® Vestolen P 9421**

PP random copolymer for Pipe extrusion

### **Description:**

This random copolymer has a high molecular weight with special designed properties required for high demanding pressure pipes. It is highly heat stabilised and especially formulated for extraction resistance. This grade with long service life is used for the manufacturing of cold and hot water pipes and fittings for transport of drinking water. It complies with German regulations for materials in contact with water intended for human consumption (BGA requirements and KTW recommendations).

### Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site http://www.SABIC-europe.com

Typical values Revision 20090604

| Properties                                                        | Unit (Si)               | Values          | Test methods           |
|-------------------------------------------------------------------|-------------------------|-----------------|------------------------|
| Polymer properties                                                |                         |                 |                        |
| Colour<br>Melt flow rate (MFR)<br>at 190 °C and 5 kg              | -<br>g/10 min           | Natural<br>0.50 | -<br>ISO 1133          |
| at 230 °C and 2.16 kg<br>Density                                  | g/10 min<br>kg/m³       | 0.30<br>898     | ISO 1183               |
| Mechanical properties                                             |                         |                 |                        |
| Tensile test stress at yield stress at break strain at break      | MPa<br>MPa<br>%         | 27<br>32<br>>50 | ISO 527                |
| Flexural test<br>Flexural modulus                                 | MPa                     | 900             | ASTM D 790             |
| Izod impact notched<br>at 23 °C<br>at 0 °C<br>at -20 °C           | kJ/m²<br>kJ/m²<br>kJ/m² | 15<br>-         | ISO 180/4A             |
| Charpy impact notched<br>at 23 °C<br>at 0 °C<br>at -20 °C         | kJ/m²<br>kJ/m²<br>kJ/m² | 25              | ISO 179                |
| Charpy impact unnotched at 23 °C                                  | kJ/m²                   | >60             | ISO 179                |
| Thermal properties                                                |                         |                 |                        |
| Vicat softening temperature<br>at 10 N (VST/A)<br>at 50 N (VST/B) | °C                      | 130<br>61       | ISO 306/A<br>ISO 306/B |





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#### Quality:

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

#### Storage and handling:

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

**Disclaimer.** The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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