



SABIC® Vestolen P 9421 66409

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. This grade fulfills the requirements in EN ISO 15874, ISO 3213, DIN 8078 and DIN 8077. It also complies with German regulations for materials in contact with water intended for human consumption (BGA requirements and KTW recommendations).

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

IMDS 80775790

Typical values

| Properties | Unit (SI) | Values | Test methods |
|--|-------------------|--------------|--------------|
| Polymer properties | | | |
| Colour | - | Green | - |
| Melt flow rate (MFR) at 230 °C and 2.16 kg | g/10 min | 0.30 | ASTM D 1238 |
| Density | kg/m ³ | 898 | ASTM D 792 |
| Mechanical properties | | | |
| Tensile test | | | ASTM D 638 |
| stress at yield ¹⁾ | MPa | 29 | |
| strain at yield ¹⁾ | % | 14 | |
| secant modulus at 1% elongation ²⁾ | MPa | 1000 | |
| Izod impact notched | | | ASTM D 256A |
| at 23 °C | J/m | 150 | |
| at 0 °C | J/m | 45 | |
| at -20 °C | J/m | 20 | |
| Rockwell hardness | | | ASTM D 785 |
| R-scale | - | 92 | |
| Thermal properties | | | |
| Vicat softening temperature ³⁾ | | | ASTM D 1525 |
| at 10 N (VST/A) | °C | 129 | |
| at 50 N (VST/B) | °C | 68 | |

1) Speed of testing: 50 mm/min

2) Speed of testing: 1 mm/min

3) Temperature rate: 120°C/h



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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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