



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).

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site

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

