

# SABIC<sup>®</sup> VESTOLEN P 9421

PP RANDOM COPOLYMER

## DESCRIPTION

This random copolymer has a high molecular weight with 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).

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
strain at yield <sup>(1)</sup>	13	%	ISO 527-2 1A
stress at yield	28	MPa	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	900	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	16	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	4	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy impact unnotched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 179
<b>Hardness Shore D</b>	63	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature <sup>(3)</sup></b>			
at 50 N (VST/B)	68	°C	ISO 306
at 10 N (VST/A)	129	°C	ISO 306

(1) Speed of testing: 50 mm/min

(2) Speed of testing: 1 mm/min

(3) Temperature rate: 120°C/h

