

SABIC® VESTOLEN P 9421

PP RANDOM COPOLYMER

DESCRIPTION

This random copolymer has a high molecular weight with special designed properties required for high demanding pressure pipes. It is highly heat stabilized and especially formulated for extraction resistance. This grade with long service life is typically used for the manufacturing of cold and hot water pipes and fittings for transport of drinking water. This grade is designed to fulfill the requirements in EN ISO 15874, ISO 3213, and DIN 8078.

TYPICAL PROPERTY VALUES

Revision 20260216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	0.3	g/10 min	ISO 1133
@ 190°C/5 kg	0.5	g/10 min	ISO 1133
Density			
@23°C ⁽¹⁾	898	kg/m ³	ISO 1183
MECHANICAL PROPERTIES			
Tensile test			
strain at yield ⁽²⁾	13	%	ISO 527-2 1A
stress at yield	28	MPa	ISO 527-2 1A
tensile modulus ⁽³⁾	900	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	16	kJ/m ²	ISO 180/1A
at 0 °C	4	kJ/m ²	ISO 180/1A
Charpy impact unnotched			
at 23 °C	No Break	kJ/m ²	ISO 179
Hardness Shore D	63	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature ⁽⁴⁾			
at 50 N (VST/B)	68	°C	ISO 306
at 10 N (VST/A)	129	°C	ISO 306

(1) Typical values: not to be construed as specification limits

(2) Speed of testing: 50 mm/min

(3) Speed of testing: 1 mm/min

(4) Temperature rate: 120°C/h

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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