

SABIC® Vestolen P 9421 66409

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

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.

General Information			
Additive	Heat Stabilizer		
Features	Extraction Resistant		
	Heat Stabilized		
	High Molecular Weight		
	Random Copolymer		
Uses	Fittings		
	Piping		
	Potable Water Applications		
Agency Ratings	BGA Food Contact, Unspecified Rating		
	DIN 8077		
	DIN 8078		
	ISO 15874		
	ISO 3213		
Agency Ratings	KTW Unspecified Rating		
Appearance	Green		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.898	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	900	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/1A/50

Tensile Strain (Yield)	13	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact Strength			ISO 180/1A
-20°C	2.0	kJ/m ²	
0°C	4.0	kJ/m ²	
23°C	16	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	129	°C	ISO 306/A120
--	68.0	°C	ISO 306/B120

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

