

SABIC® Vestolen P 9422-67728

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This polypropylene random copolymer has a high molecular weight with an excellent chemical resistance, outstanding hydro-static strength. Its good weldability makes it suitable for pipe-lines and tanks for the chemical industry, especially when corrosive media have to be conveyed or stored at elevated temperatures.

General Information			
Features	High molecular weight		
	Weldable		
	Good chemical resistance		
	Random copolymer		
Uses	Piping system		
	Water tank		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/5.0 kg	0.50	g/10 min	ISO 1133
230°C/2.16 kg	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 2.00mm	27.0	MPa	ISO 527-2/50
Fracture, 2.00mm	32.0	MPa	ISO 527-2/50
Tensile Strain (Break, 2.00 mm)	50	%	ISO 527-2/50
Flexural Modulus ¹	900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	15	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	130	°C	ISO 306/A50
--	61.0	°C	ISO 306/B50
Additional Information			

Strain at Break, ISO 527, 2mm, 50mm/min: >50%Charpy Unnotched Impact, ISO 179, 23°C: >60 kJ/m²

NOTE

1. Method I (three-point load)

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