

# SABIC® Vestolen A RELY 5922R 10000

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® Vestolen A RELY 5922R 10000 is a grade which has a high density and a bimodal distribution of the molecular mass. Due to its resistance against slow crack growth (SCG) the material SABIC® Vestolen A RELY 5922R 10000 is considered as PE100-RC and may be used for no dig applications. This material meets (inter)national standards for use in gas, drinking water and waste water piping. MRS class ISO 12162 MPa = 10.0 (PE 100). This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	Carbon Black (2%)		
Features	Bimodal Molecular Weight Distribution		
	Good Crack Resistance		
	High Density		
Uses	Piping		
Agency Ratings	ISO 12162 PE 100		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	< 0.10	g/10 min	
190°C/5.0 kg	0.20	g/10 min	
FNCT - ESCR <sup>1</sup> (80°C)	> 1	yr	ISO 16770
ESCR (Strain Hardening) - Gp	> 50.0	MPa	Internal Method
Notch Pipe Test	> 1	yr	ISO 13479
Oxidation Induction Time - Compression Molded (210°C)	> 20	min	ISO 11357-6
MRS Classification	10.0	MPa	ISO 12162
RAL Number	9004		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1100	MPa	ISO 527-2/1BA/50
Tensile Stress (Yield, 2.00 mm, Compression Molded)	24.0	MPa	ISO 527-2/1BA/50

Tensile Strain (Yield, 2.00 mm, Compression Molded)	9.0	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Compression Molded	10	kJ/m <sup>2</sup>	
23°C, Compression Molded	26	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	72.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature	72.0	°C	ISO 306/B
Melting Temperature (DSC)	124 to 128	°C	DIN 53765
NOTE			
1.	2% Arkopal N100, 4 MPa		

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#### Recommended distributors for this material

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