

# SABIC® Vestolen A RELY 5922R 10000 Black

High Density Polyethylene

SABIC

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

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.

Moreover it may be used for the production of thick walled (large diameter and low SDR) pipes for infrastructure and industrial application due to its low sagging characteristics and it shows favorable processing behavior.

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

Material Status	• Commercial: Active		
Search for UL Yellow Card	• SABIC		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Carbon Black: 2%		
Uses	• Rigid Packaging		
Appearance	• Black		

Physical	Nominal Value Unit	Test Method
Density	0.959 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.20 g/10 min	ISO 1133
Carbon Black Content	2.3 %	ISO 6964
ESCR - Strain Hardening, Gp <sup>2</sup>	> 50.0 MPa	Internal Method
FNCT <sup>3</sup> (80°C)	> 12.0 month	ISO 16770

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (2.00 mm)	1100 MPa	ISO 527-1/1BA/50
Tensile Stress (Yield, 2.00 mm)	24.0 MPa	ISO 527-2/1BA/50
Tensile Strain (Yield, 2.00 mm)	9.0 %	ISO 527-2/1BA/50
Notch Pipe Test	> 12.0 month	EN ISO 13479

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	10 kJ/m <sup>2</sup>	
23°C	26 kJ/m <sup>2</sup>	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	62	ISO 868

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
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	124 to 128 °C	DIN 53765
Oxidation Induction Time (210°C)	> 20 min	ISO 11357-6

Additional Information	Nominal Value Unit	Test Method
MRS Classification	10.0 MPa	ISO 12162
RAL Number	9004	

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Publication in Science Direct, Polymer no. 46 (2005) 6369-6379

<sup>3</sup> 4 MPa, 2% Arkopal N100



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## Where to Buy

### Supplier

**SABIC**

Web: <http://www.sabic.com/>

### Distributor

**AECTRA**

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: France

**AGI-Augusto Guimarães & Irmão**

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

**Distrupol Ltd**

*Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*

Telephone: 08452003040

Web: <http://www.distrupol.com/>

Availability: Denmark, Finland, Norway, Sweden

**Guangzhou Hua Xiu Plastics Co. Ltd**

Telephone: +86-20-82582555

Web: <http://www.va-so.cn/>

Availability: Asia Pacific

**Guzmán Polymers**

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain

**Nexeo Plastics**

*Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at [www.nexeoplastics.com](http://www.nexeoplastics.com).*

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

**Nexeo Plastics - Europe**

*Nexeo Plastics is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

Telephone: +34-93-480-9125

Web: <https://www.nexeoplastics.com/>

Availability: Poland

**Plastoplan**

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Czech Republic, Poland, Slovakia

**RESINEX Group**

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

