



# SABIC<sup>®</sup> VESTOLEN A 5640C 10000 BLACK

HIGH DENSITY POLYETHYLENE

## DESCRIPTION

SABIC<sup>®</sup> Vestolen A 5640C 10000 is a grade which has a high density and a bimodal distribution of the molecular mass. It offers a good processability and high stress cracking resistance (ESCR).

SABIC<sup>®</sup> Vestolen A 5640C 10000 is typically used for the coating of steel pipes as part of a three-layer PE system.

The product is not intended for and must not be used in any pharmaceutical/medical application.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Colour	Black	-	-
RAL number	9004	-	-
<b>Melt Flow Rate</b>			
at 190 °C and 5 kg	1.8	dg/min	ISO 1133
Carbon black content	>2	%	ISO 6964
Density	956	kg/m <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	21	MPa	ISO 527-2
strain at yield	15	%	ISO 527-2
strain at break	>600	%	ISO 527-2
tensile modulus	850	MPa	ISO 527-2
Hardness Shore D	57	-	ISO 868
ESCR (10% Igepal CO-630), F50	>2000	h	ASTM D1693B
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	>110	°C	ISO 306

## ENVIRONMENT AND RECYCLING

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

## QUALITY

SABIC is fully certified in accordance with the internationally accepted quality standard ISO 9001.