



SABIC® VESTOLEN A 5061R 10000 BLACK

HIGH DENSITY POLYETHYLENE

DESCRIPTION

SABIC® Vestolen A 5061R 10000 (black) is a grade, which has a high density and a bimodal distribution of the molecular mass. An universal grade for pipe extrusion which, due to a keen combination of properties, is typically used for drinking water and waste water piping.

This material meets (inter)national standards for use in drinking water and wastewater piping.

MRS class ISO 12162 MPa = 8.0 (PE 80).

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
RAL number	9004	-	-
Melt Flow Rate			
at 190 °C and 2.16 kg	0.1	dg/min	ISO 1133
at 190 °C and 5 kg	0.36	dg/min	ISO 1133
Carbon black content	2.25	%	ISO 6964
MECHANICAL PROPERTIES			
Tensile test ^{(1) (2)}			
stress at yield	23	MPa	ISO 527-2
strain at yield	9	%	ISO 527-2
tensile modulus	1000	MPa	ISO 527-2
Charpy Impact Strength Notched			
at 23 °C	23	kJ/m ²	ISO 179/1eA
at -30 °C	8.6	kJ/m ²	ISO 179/1eA
Hardness Shore D	59	-	ISO 868
MRS classification	8	MPa	ISO 12162
OIT 210 °C	>20	min	ISO 11357-6
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 1.80 MPa (HDT/A)	42	°C	ISO 75-2
at 0.45 MPa (HDT/B)	70	°C	ISO 75-2
Vicat Softening Temperature			
at 50 N (VST/B)	70	°C	ISO 306
DSC test			
melting point	123 – 127	°C	DIN 53765

(1) Speed of testing: 50 mm/min

(2) Test specimen according to ISO 527-2 type 1BA, thickness 2 mm

(3) Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours