




## Product Data and Technical Information

<b>Name</b>	Hostalen
<b>Grade</b>	GM 5010 T3 black
<b>Resin type</b>	Polyethylene, High Density
<b>Description</b>	<b>Hostalen GM 5010 T3 black</b> is a high density polyethylene (HDPE), black coloured similar RAL 9004 with high melt viscosity for extrusion, injection and compression moulding. The product is classified as PE 80 and provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength. It is not intended for medical and pharmaceutical applications.
<b>Availability</b>	Europe, Asia-Pacific, Australia-NZ, Africa-Middle East, South & Central America

### Technical data

<b>Density</b>	0.957 g/cm <sup>3</sup>
<b>Melt flow rate (MFR)</b>	9.0 g/10 min (190°C/21.6kg)
<b>Melt flow rate (MFR)</b>	0.43 g/10 min (190°C/5.0kg)
<b>Tensile Modulus</b>	850 MPa (23 °C)
<b>Tensile Stress at Yield</b>	22 MPa (23 °C)
<b>Tensile Strain at Break</b>	600 % (4 mm)
<b>Tensile Strain at Yield</b>	8 % (23 °C)
<b>Tensile Creep Modulus 1h</b>	640 [2.0] MPa
<b>Tensile Creep Modulus 1000h</b>	300 [2.0] MPa
<b>Charpy notched impact strength</b>	8 kJ/m <sup>2</sup> (-30 °C)
<b>Charpy notched impact strength</b>	24 kJ/m <sup>2</sup> (23 °C)
<b>Vicat softening temperature</b>	70 °C (VST/B/50 K/h (50 N))
<b>Shore hardness</b>	59 (Shore D (3 sec))
<b>Maximum elongation TD</b>	≥ 350 %
<b>Carbon black content</b>	2.25 %
<b>Staudinger index Jg</b>	310 ml/g
<b>MRS classification</b>	8 MPa
<b>Flexural stress at 3,5% deflection</b>	18 MPa
<b>FNCT (4.0 MPa, 2% Arkopal N 100, 80°C)</b>	≥ 500 h
<b>Odor treshold</b>	< 2.0
<b>Flexural creep modulus</b>	1000 MPa (4 point loading method, 1 min-value)
<b>Flexural creep modulus</b>	300 MPa (4 point loading method, 2000 h-value)
<b>Flexural creep modulus</b>	470 MPa (4 point loading method, 24 h-value)
<b>Oxidation induction time (OIT) (210°C)</b>	30 min

**Product Data Sheets**

 ISO Data Sheet

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**MSDS**  
(Material Safety Data Sheet)

European

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 Hostalen GM 5010 T3 black IM

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