

## Hostalen CRP 100 black

High density polyethylene (HDPE) for all pressure pipe applications



Photo: Courtesy of PLOMYPLAS

Hostalen CRP 100 black is a high density polyethylene (HDPE) PE 100 compound for pipes and fittings, which has steadily replaced traditional materials such as cast iron, ductile iron and concrete in piping systems. Smaller pipes can be coiled and installed over long distances without connections.

Hostalen CRP 100 black is classified as PE 100 and provides good stress crack resistance properties (ESCR) combined with excellent long-term hydrostatic strength. From ISO 9080 evaluation, a lifetime of 100 years even at 40°C can be concluded.

In addition, it has demonstrated outstanding resistance to rapid crack propagation in the S4-test with a high wall thickness pipe.

Hostalen CRP 100 black meets all requirements of the international standards for PE pressure piping systems: ISO 4427/EN 12201 for water, ISO 4437/EN 1555 for gas and AS NZS 4131.

### Some typical applications



Drinking water pipe



Gas pipe



Industrial pipe



Soil & waste pipe

### Product Benefits

- Excellent long-term hydrostatic strength
- Improved durability due to high stress crack and slow crack growth resistance
- Excellent resistance to corrosion and abrasion
- Easily installed, lightweight pipes
- Good weldability
- Excellent processability with low die deposit build up

### Resin Properties

Physical Properties	Test Method	Hostalen CRP 100 black
Melt Flow Rate (190°C/5kg)	ISO 1133-1	0.23 g/10min
Density	ISO 1183-1	0.959 g/cm <sup>3</sup>
Tensile Modulus (23°C)	ISO 527-1,2	1100 MPa
MRS Classification	ISO 9080	10 MPa
FNCT (80°C/4MPa/2%N100)	ISO 16770	> 1000 h
NPT (80°C/9.2 bar)	ISO 13479	> 2000 h
S4-Test @ 0°C, Ø315x28.6mm	ISO 13477	Pc > 20 bar
S4-Test @ 0°C, Ø630x57.2mm	ISO 13477	Pc > 10 bar

Note: Typical properties, not to be considered as specifications.

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