Technical Data Sheet

# *Hostalen* CRP 100 S blue

High Density Polyethylene

## Product Description

*Hostalen* CRP 100 S BLUE is a bimodal high density polyethylene compound (HDPE), blue colored similar to RAL 5005 (Royal blue).
The compound contains a specially designed stabilisation package to protect against UV radiation and thermal degradation. Additionally it contains a pigment system with very high opacity, to provide colourful, bright stripes when extruded as thin layer on black pipes.
The blue compound is typically used for the coextrusion of blue identification stripes according EN 12201-2 on black pipes produced from *Hostalen* CRP 100 BLACK, *Hostalen* CRP 100 RESIST CR BLACK or *Hostalen* CRP 100 RCD BLACK.
*Hostalen* CRP 100 S BLUE complies with the fusion compatibility requirements in prEN 12201-1:2021, and with the resistance to weathering as described in prEN 12201-1:2021, Table 2 after a cumulative radiant exposure of 7 GJ/m².
This excellent resistance to weathering allows an outdoor storage of the pipes for 1-2 years depending on the region and the average yearly cumulative radiant dosage (see EN12007-2, Fig 2).

## Regulatory Status

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; South & Central America |
| **Application** | Drinking Water Pipe |
| **Market** | Pipe |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (190 °C/5.0 kg) | 0.45 | g/10 min | ISO 1133-1 |
| Density | 0.95 | g/cm³ | ISO 1183-1 |
| **Thermal** | | | |
| Oxidation Induction Time | | | |
| (200 °C) | >=40 | min | ISO 11357-6 |
| (210 °C) | >=20 | min | ISO 11357-6 |
| **Additional Information** | | | |
| Odor Threshold | <6 | | EN 1622/EN 1420 |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Recommended melt temperatures: 190 °C to 230 °C.



Manufacturer website: https://www.lyondellbasell.com/en/

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Further Information

### Health and Safety:

The resin is manufactured to the highest standards, but special requirements apply to certain applications such as food end-use contact and direct medical use. For specific information on regulatory compliance contact your local representative.

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The products of degradation may have an unpleasant odor. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the control of emissions and pollution prevention should be observed.

The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. While burning, the resin contributes high heat and may generate a dense black smoke.

Recycled resins may have previously been used as packaging for, or may have otherwise been in contact with, hazardous goods. Converters are responsible for taking all necessary precautions to ensure that recycled resins are safe for continued use.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

### Conveying:

Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard. Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks.

### Storage:

The resin is packed in 25 kg bags, octabins or bulk containers protecting it from contamination. If it is stored under certain conditions, i. e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavorable storage conditions may also intensify the resin's slight characteristic odor.

Resin should be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time.

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. This information does not remove the obligation of the customer to inspect the material on arrival and notify us of any faults immediately. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

## Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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