

## Technical Data Sheet

### Hostalen PP H1022 12

Polypropylene, Impact Copolymer



#### Product Description

Hostalen PP H1022 12 is a black colored polypropylene blockcopolymer with high melt viscosity and good low-temperature impact strength. The product is typically used by customers in the application injection molded fittings. For further details about the suitable applications for this material please contact LyondellBasell.

#### Regulatory Status

For regulatory compliance information, see Hostalen PP H1022 12 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                  |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe |
| <b>Application</b>       | Fittings; Industrial; Soil & Waste Pipe                             |
| <b>Market</b>            | Industrial, Building & Construction; Pipe                           |
| <b>Processing Method</b> | Injection Molding; Pipe                                             |
| <b>Attribute</b>         | Block Copolymer                                                     |

| Typical Properties                          | Nominal Value | Units             | Test Method   |
|---------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                             |               |                   |               |
| Melt Flow Rate                              |               |                   |               |
| (230 °C/2.16 kg)                            | 0.3           | g/10 min          | ISO 1133-1    |
| (230 °C/5.0 kg)                             | 1.3           | g/10 min          | ISO 1133-1    |
| (190 °C/5.0 kg)                             | 0.5           | g/10 min          | ISO 1133-1    |
| Density                                     | 0.908         | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                           |               |                   |               |
| Tensile Modulus, (23 °C)                    | 1400          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                     | 31            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C, 50 mm/min) | 12            | %                 | ISO 527-1, -2 |
| <b>Impact</b>                               |               |                   |               |
| Charpy Impact Strength - Notched            |               |                   |               |
| (23 °C)                                     | 117           | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C)                                      | 21            | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C)                                    | 7             | kJ/m <sup>2</sup> | ISO 179       |
| <b>Hardness</b>                             |               |                   |               |
| Shore Hardness, (Shore D)                   | 64            |                   | ISO 868       |
| Ball Indentation Hardness, (H 132/30)       | 50            | MPa               | ISO 2039-1    |
| <b>Thermal</b>                              |               |                   |               |
| Vicat Softening Temperature                 |               |                   |               |
| (A50)                                       | 158           | °C                | ISO 306       |
| (B/10 N)                                    | 75            | °C                | ISO 306       |

|                                                       |        |               |
|-------------------------------------------------------|--------|---------------|
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 91 °C  | ISO 75B-1, -2 |
| DSC Melting Point                                     | 164 °C | ISO 3146      |

## Notes

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