

Hostalen 3531B

A differentiated solution for temperature-resistant piping



LyondellBasell (LYB) introduces *Hostalen* grade 3531B, a raised-temperature-resistant polyethylene (PE RT Type I) resin. This addition completes the LYB portfolio of materials used for pipes for heating and cooling applications, including underfloor heating pipes.

Hostalen 3531B is a high density polyethylene (HDPE) grade engineered for extrusion, exhibiting high melt viscosity. Typical extrusion temperatures for this process range from 220 to 240 °C, enabling optimal manufacturing efficiency. Customers select this resin because it provides superior long-term hydrostatic strength and high long-term heat aging stability. This is combined with good stress crack resistance properties (ESCR), ensuring product integrity and maximizing better outcomes.

Hostalen 3531B fulfills the material requirements of DIN 16833 / ISO 24033 for PE-RT Type I. This includes application class 4 according to ISO 10508 for underfloor heating pipes.

The innovative grade helps LYB collaborate more effectively with customers to solve unique needs and ultimately contributes to creating solutions for everyday sustainable living.

Product benefits

- Increased flexibility for easy pipe laying
- Exceptional long-term life expectancy
- Wide operating temperature range (between -20 °C and 70 °C)
- PE-RT Type I Classification

Typical applications



Floor and wall heating and cooling



Pipe for hot and cold liquids



Hot/cold water transportation



Radiator connections



Artificial turf heating

About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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