

Hostalen 5231H and Hostalen 5231H UV

Making high stress cracking resistance for caps & closures possible



Cost and environmental benefits are driving the closures industry towards weight reduction whilst keeping end-user convenience. Addressing these trends requires new polymer designs and structures, which demands expertise in catalysts, polymerization technologies as well as application development.

To advance caps and closures design and performance, LyondellBasell developed the innovative grades *Hostalen 5231H* and *Hostalen 5231H UV* combining excellent environmental stress crack resistance (ESCR) performance with high fluidity, allowing down gauging. The good processability delivered by these grades leads to higher productivity and a potential of energy saving by allowing the use of lower injection temperature.

Product Benefits *Hostalen 5231H*

- Good stiffness and toughness
- High ESCR
- Organoleptic profile
- Excellent processability
- Up to 20% energy saving by allowing the use of lower injection temperature

Hostalen 5231H UV also offers

- Tailored additive package for optimized combination of odor & taste and opening torque

Some typical applications

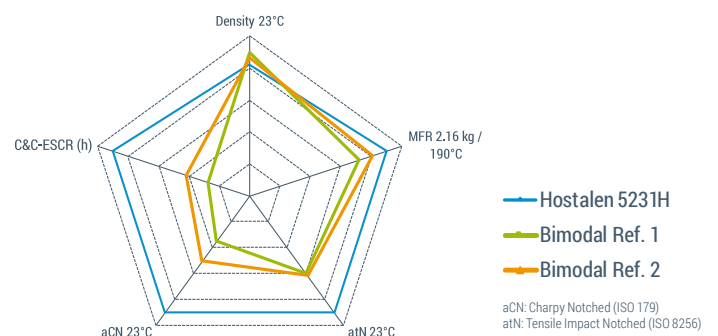


Carbonated Soft Drinks (CSD)



High cavity injection molding process & compression molding

Combination of properties gives *Hostalen 5231H* outstanding competitive advantages



Resin Properties

Physical Properties	Unit	Value
Melt Flow Rate 190 °C/2.16 kg	g/10 min	2.0
Melt Flow Rate 190 °C/5.0 kg	g/10 min	5.6
Density	g/cm ³	0.952
Mechanical		
Tensile Modulus	MPa	1100
Tensile Stress at Yield	MPa	25
Tensile Strain at Yield	%	10
Environm. Stress Crack Resistance	h	45
Impact Strength		
Charpy notched	23°C / kJ/m ²	10.4
Charpy notched	-30°C / kJ/m ²	5.3
Thermal		
Vicat Softening Temperature	°C, (B50)	74

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

ABOUT US

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by its employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road, and ensuring the safe and effective functionality in electronics and appliances. LyondellBasell sells products into more than 100 countries and is the world's largest producer of polymer compounds and the largest licensor of polyolefin technologies.

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