

Hostalen ACP 5331H UV B Plus

High Density Polyethylene
LyondellBasell Industries

Technical Data

Product Description

Hostalen ACP 5331H UV B Plus is a HDPE resin produced using LyondellBasell latest-generation Hostalen ACP technology. Hostalen ACP 5331H UV B Plus exhibits good processing characteristics on a wide range of injection molding and compression molding equipment.

Exceptional organoleptic properties and a good balance of stiffness, toughness and environmental stress cracking resistance make Hostalen ACP 5331H UV B Plus the choice of customers for the production of closures for sparkling water, CSD and many other types of food and non-food caps and closures.

Hostalen ACP 5331H UV B Plus is formulated with an additive package used by customers for an optimised combination of organoleptic properties and opening torque.

This grade is not intended for use in medical or pharmaceutical applications.

General

Material Status	• Commercial: Active		
Literature ¹	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet - ISO (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Slip		
Features	• Good Organoleptic Properties • Good Processability	• Good Stiffness • Good Toughness	• High ESCR (Stress Crack Resist.) • Slip
Uses	• Caps	• Closures	• Non-specific Food Applications
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Density	0.953 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/2.16 kg	2.1 g/10 min	
190°C/5.0 kg	6.3 g/10 min	
FNCT ³ (50°C)	> 9.0 hr	Internal Method
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1150 MPa	ISO 527-2
Tensile Stress (Yield)	30.0 MPa	ISO 527-2
Tensile Strain (Yield)	10 %	ISO 527-2
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (-30°C)	5.0 kJ/m ²	ISO 179
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	62	ISO 868
Ball Indentation Hardness (H 132/30)	51.0 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	75.0 °C	ISO 306/B50
Injection	Nominal Value Unit	
Processing (Melt) Temp	190 to 230 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 6 MPa, 2% Arkopal