

Hostalen ACP 5331 A

High Density Polyethylene
LyondellBasell Industries

Technical Data

Product Description

Hostalen ACP 5331 A is a high density polyethylene with an excellent combination of stiffness and ESCR and a good impact resistance. It is delivered in pellet form and containing antioxidants. Typical customer applications include larger jerry cans and drums up to 60 for the packaging of dangerous goods. Hostalen ACP 5331 A is not intended for use in medical and 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 (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antioxidant		
Features	• Antioxidant • Good Impact Resistance	• Good Stiffness • High ESCR (Stress Crack Resist.)	• High Rigidity
Uses	• Blow Molding Applications • Drums	• Engineering Parts • Jerricans	
Forms	• Pellets		
Processing Method	• Extrusion Blow Molding		

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm ³	ISO 1183
Apparent Density	> 0.50 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.5 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ³ 80°C, 2% Igepal	50.0 hr	ISO 16770

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1050 MPa	ISO 527-2
Tensile Stress (Yield)	26.0 MPa	ISO 527-2
Tensile Strain (Yield)	10 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Tensile Impact Strength (-30°C)	150 kJ/m ²	ISO 8256/1

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 132/30)	47.0 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	80.0 °C	ISO 306/B50

Extrusion	Nominal Value Unit
Melt Temperature	180 to 220 °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 3.5 MPa; BC/9