

Hostalen ACP 5531 B

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Hostalen ACP 5531 B 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 contains antioxidants. Typical customer applications include jerry cans for the packaging of dangerous goods and light weight jerry cans. Hostalen ACP 5531 B 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 - ISO (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	• High ESCR (Stress Crack Resist.) • High Rigidity	
Uses	• Blow Molding Applications	• Jerricans	
Forms	• Pellets		
Processing Method	• Extrusion Blow Molding		

Physical	Nominal Value Unit	Test Method
Density	0.954 g/cm ³	ISO 1183
Apparent Density	> 0.50 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/21.6 kg	9.5 g/10 min	
190°C/5.0 kg	0.45 g/10 min	
FNCT - 3.5 MPa ³ (80°C)	1.7 day	ISO 16770

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1250 MPa	ISO 527-2
Tensile Stress (Yield)	27.0 MPa	ISO 527-2
Tensile Strain (Yield)	10 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Tensile Impact Strength (-30°C)	90.0 kJ/m ²	ISO 8256/1

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	80.0 °C	ISO 306/B50

Additional Information	Nominal Value Unit	Test Method
Staudinger Index	300 cm ³ /g	ISO 1628-3

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 2% Igepal BC/9