Hostalen ACP 6031 D

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description
Hostalen ACP 6031 D is a high density polyethylene (HDPE) resin used in small blow molding application such as thin-wall packaging and consumer goods. It exhibits very high stiffness. Hostalen ACP 6031 D is delivered in pellet form, contains antioxidants and has a broad molecular weight distribution. Hostalen ACP 6031 D 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 • High ESCR (Stress Crack Resist.)	• High Stiffness • Wide Molecular Weight Distribution	
Uses	• Blow Molding Applications • Bottles • Consumer Applications	• Industrial Applications • Packaging • Thin-walled Packaging	• Vials
Forms	• Pellets		
Processing Method	• Extrusion Blow Molding	• Injection Blow Molding	

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm³	ISO 1183
Apparent Density	> 0.50	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.35	g/10 min	
190°C/21.6 kg	23	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Environmental Stress-Cracking Resistance	130	hr	ASTM D1693
Full Notch Creep Test [3] (80°C)	7.0	hr	ISO 16770

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1420	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.0	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	6.0	kJ/m²	ISO 179/1A
Tensile Impact Strength (-30°C)	65.0	kJ/m²	ISO 8256/1

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		ISO 868
Ball Indentation Hardness (H 132/30)	63.0	MPa	ISO 2039-1

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, 2% Igepal BC/9