

# Hostalen ACP 5831 D

High Density Polyethylene  
LyondellBasell Industries

Message:

Hostalen ACP 5831 D is a high density polyethylene (HDPE) resin used in small blow molding applications such as thin-wall packaging, consumer goods and toys. It exhibits a very good combination of high stiffness and high stress cracking resistance. Hostalen ACP 5831 D is delivered in pellet form, demonstrates good organoleptic properties, contains antioxidants and has a broad molecular weight distribution. Hostalen ACP 5831 D is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Organoleptic Properties		
	High ESCR (Stress Crack Resist.)		
	High Rigidity		
	High Stiffness		
	Wide Molecular Weight Distribution		
Uses	Blow Molding Applications		
	Bottles		
	Consumer Applications		
	Jerricans		
	Packaging		
	Sporting Goods		
	Toys		
	Vials		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ISO 1183
Apparent Density	> 0.50	g/cm <sup>3</sup>	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	22	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Environmental Stress-Cracking Resistance (10% Nonionic Surfactant)	150	hr	ASTM D1693B
FNCT <sup>1</sup> (80°C)	8.0	hr	ISO 16770
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		ISO 868

Ball Indentation Hardness (H 132/30)	60.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1350	MPa	ISO 527-2
Tensile Stress (Yield)	28.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	6.5	kJ/m <sup>2</sup>	ISO 179/1eA
Tensile Impact Strength (-30°C)	75.0	kJ/m <sup>2</sup>	ISO 8256/1
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 210	°C	
NOTE			

1. 3.5 MPa, 2% Igepal BC/9

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