

# Hostalen ACP 5231 D

High Density Polyethylene  
LyondellBasell Industries

Message:

Hostalen ACP 5231 D is a high density polyethylene (HDPE) resin used in small blow molding applications such as packaging, consumer goods and toys. It exhibits a very good combination of high stress cracking resistance, stiffness and good chemical resistance. Hostalen ACP 5231 D is delivered in pellet form, demonstrates good organoleptic properties, contains antioxidants and has a broad molecular weight distribution. Hostalen ACP 5231 D is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Rigidity		
Uses	Blow Molding Applications		
	Bottles		
	Industrial Applications		
	Jerricans		
	Packaging		
	Sporting Goods		
	Toys		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.952	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 <sup>1</sup>	1200	hr	ASTM D1693B
FNCT <sup>2</sup> (80°C)	1.3	day	ISO 16770
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
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (-30°C)	6.0	kJ/m <sup>2</sup>	ISO 179/1A
Tensile Impact Strength (-30°C)	75.0	kJ/m <sup>2</sup>	ISO 8256/1
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	180 to 220	°C	
<b>NOTE</b>			
1.	Tested in 10% nonionic surfactants		
2.	3.5 MPa, 2% Igepal BC/9		

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