

# Purell ACP 5231 D

High Density Polyethylene  
LyondellBasell Industries

Message:

Purell ACP 5231 D is a high density polyethylene with an excellent combination of stress crack resistance and stiffness. It is delivered in pellet form containing antioxidants and used by our customers for small blow moulding applications in the healthcare and diagnostics segment. Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Ethylene Oxide Sterilizable
	High ESCR (Stress Crack Resist.)
	High Rigidity
Uses	Bottles
	Caps
	Closures
	Medical/Healthcare Applications
	Tubing
	Vials
Forms	Pellets
Processing Method	Extrusion Blow Molding
	Injection Blow Molding
	Injection Molding

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	23	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
FNCT <sup>1</sup> (80°C)	1.3	day	ISO 16770
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		ISO 868
Ball Indentation Hardness (H 132/30)	37.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2

Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	5.0	kJ/m <sup>2</sup>	ISO 179/1A
Tensile Impact Strength	77.0	kJ/m <sup>2</sup>	ISO 8256/1
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 220	°C	
NOTE			
1.	3.5 MPa, 2% Arcopal		

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Recommended distributors for this material

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