

Purell ACP 6541A

High Density Polyethylene

LyondellBasell Industries

Message:

Exceptional organoleptic properties and outstanding balance of stiffness, toughness and environmental stress cracking resistance make Purell ACP6541A the choice of customers for the production of closures for still mineral and sparkling water, CSD and many other types of food and non-food caps and closures as well as tube shoulders and compression moulding applications.

Purell ACP 6541A is additionally used by our customers in injection moulding applications in the medical and pharmaceutical market after approval is given by LyondellBasell.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant LyondellBasell Technical and Business contacts first.

General Information			
Features	Ethylene Oxide Sterilizable Good Organoleptic Properties Good Stiffness Good Toughness High Density High ESCR (Stress Crack Resist.) High Flow		
Uses	Caps Closures Medical Devices Medical/Healthcare Applications Pharmaceuticals Tubing		
Forms	Pellets		
Processing Method	Compression Molding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	1.5	g/10 min	
190°C/5.0 kg	6.4	g/10 min	
Environmental Stress-Cracking Resistance ¹ (50°C, 2% Arkopal)	30.0	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	55		ISO 868
Ball Indentation Hardness (H 132/30)	54.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	22.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.5	kJ/m ²	
23°C	11	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 230	°C	
NOTE			
1.	Full Notch Creep Test, 6 MPa		

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