



Purell ACP 6541A

Polyethylene, High Density

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Compression Molding, Injection Molding
Features	Ethylene Oxide Sterilisation
Typical Customer Applications	Caps & Closures, Caps & Closures (Healthcare), Collapsible Tubes, Collapsible Tubes (Healthcare), Healthcare Applications

Typical Properties	Method	Value	Unit
Physical			
Density (23°C)	ISO 1183	0.954	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		1.45	g/10 min
(190°C/5.0kg)		6.4	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1100	MPa
Tensile Stress at Yield	ISO 527-1, -2	22	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
ESCR (Basell)	Basell Method	30	h
<i>Note: FNCT (Full Notch Creep Test), 6MPa, 2% Arkopal, 50°C</i>			
Impact			
Charpy notched impact strength	ISO 179		
(23 °C)		11	kJ/m ²
(-30 °C)		4.5	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	55	
Ball indentation hardness (H 132/30)	ISO 2039-1	54	
Thermal			
Vicat softening temperature B/50	ISO 306	70	°C

Additional Properties

Recommended processing temperatures: 190°C to 230°C.

Notes

Typical properties; not to be construed as specifications.