

Technical Data Sheet

Purell ACP 6541A

High Density Polyethylene



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 (incl. hinge caps) as well as tube shoulders and compression moulding applications.

Purell ACP6541A is additionally used by our customers in injection moulding applications in the medical and pharmaceutical market after approval is given by LyondellBasell.

Application	Caps & Closures; Caps & Closures (Healthcare); Collapsible Tubes; Collapsible Tubes (Healthcare); Healthcare Applications; Medical Devices
Market	Consumer Products; Healthcare; Rigid Packaging
Processing Method	Compression Molding; Injection Molding
Attribute	Ethylene Oxide Sterilisation; Good Organoleptic Properties; Good Toughness; High Density; High ESCR (Environmental Stress Cracking Resistance)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	1.45	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	6.4	g/10 min	ISO 1133-1
Density	0.954	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	22	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	30	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	11	kJ/m ²	ISO 179
(-30 °C)	4.5	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	55		ISO 868
Ball Indentation Hardness, (H 132/30)	54	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B50)	70	°C	ISO 306

