

Hostalen ACP 6541A UV / Purell ACP 6541A

High-performance HDPE resins produced by the *Hostalen* Advanced Cascade Process technology. Used by customers in closures and collapsible tubes.



LyondellBasell's ACP 6541A grades offer customers a combination of outstanding environmental stress cracking resistance (ESCR) and high throughput required for carbonated soft drink and mineral water beverage closures and collapsible tubes.

Industrial trials of *Purell* ACP 6541A conducted by converters have shown that significant savings in total cycle times are possible with melt temperatures reduced by 40°C and with no mold filling issues. Additionally, independent sensory tests have shown the material to exhibit reduced odour and taste that are generally required in beverage applications.

Hostalen ACP 6541A UV is a grade version with specially designed additive package to address slip performance requirements.

ACP 6541A: Breakthrough used in beverage closure market

- Enables single-piece closure design manufacturing
- Possibility to achieve higher productivity independently of the conversion process (injection or compression molding)
- Scope for beverage closure downgauging supported by the improved environmental stress-cracking resistance
- Organoleptic profile addressing beverage market requirements
- Opportunity for closure differentiation via design modification following beverage market trend evolution

Typical properties of ACP 6541A:

MFR (g/10min) (ISO 1133); 2.16kg, 190°C	1.45
MFR (g/10min) (ISO 1133); 5kg, 190°C	6.4
Density g/cm ³ (ISO 1183)	0.954
Charpy impact -30°C (kJ/m ²) (ISO 179/1eA)	4.3
ESCR (LyondellBasell Method*), hr 90°C	25

*Note: FNCT (Full Notch Creep Test), 6MPa, 2% Arkopal, 50°C

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