Technical Data Sheet

Hostalen ACP 5831 D B

Product Description

Hostalen ACP 5831 D B is a high density polyethylene resin used in small blow molding applications such as thin-wall packaging, consumer goods and toys. It exhibits a very good combination of high stiffness and high stress cracking resistance. *Hostalen* ACP 5831 D B is delivered in pellet form, demonstrates good organoleptic properties, contains antioxidants and has a broad molecular weight distribution. *Hostalen* ACP 5831 D B is not intended for use in medical and pharmaceutical applications.

Regulatory Status

For regulatory compliance information, see *Hostalen* ACP 5831 D B Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Asia-Pacific
Application	Bottles For Consumer Goods; Bottles for Industrial Use; Jerry Cans; Sports, Leisure & Toys
Market	Consumer Products; Industrial Packaging; Rigid Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.35	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	1.2	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	22	g/10 min	ISO 1133-1
Density	0.958	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1350	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Environmental Stress Crack Resistance, F_{50}	150	hr	ASTM D1693
Note: Cond. B, 10% Arkopal N100			
FNCT, (4.0 MPa, 2% Arkopal N100, 80 °C)	3.6	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched, (-30 °C, Type 1, Edgewise, Notch A)	4	kJ/m²	ISO 179
Tensile Impact Strength	65	kJ/m²	ISO 8256
Note: notched, -30°C			
Hardness			
Shore Hardness, (Shore D)	64		ISO 868
Ball Indentation Hardness, (H 132/30)	60	MPa	ISO 2039-1
Processing Parameters			

Melt Temperature	180 - 220	°C

Notes

These are typical property values not to be construed as specification limits.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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