

Technical Data Sheet

Hostalen ACP 5231 D

High Density Polyethylene



Product Description

Hostalen ACP 5231 D is a high density polyethylene resin used in small blow molding applications such as packaging, consumer goods and toys. It exhibits a very good combination of high stress cracking resistance, stiffness and good chemical resistance. Hostalen ACP 5231 D is delivered in pellet form, demonstrates good organoleptic properties, contains antioxidants and has a broad molecular weight distribution.

Hostalen ACP 5231 D is not intended for use in medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; South & Central America
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; Good Processability; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.30	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	0.952	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	25	MPa	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
Environmental Stress Crack Resistance, F ₅₀	1200	hr	ASTM D1693
Note: Cond. B, 10% Arkopal N100			
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	85	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched, (-30 °C, Type 1, Edgewise, Notch A)	6	kJ/m ²	ISO 179
Tensile Impact Strength	75	kJ/m ²	ISO 8256
Note: notched, -30°C			
Hardness			



Shore Hardness, (Shore D)	62	ISO 868
Ball Indentation Hardness, (H 132/30)	51 MPa	ISO 2039-1
Processing Parameters		
Melt Temperature	180 - 210 °C	

Notes

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

