

Technical Data Sheet

Hostalen 5231H

High Density Polyethylene

Product Description

Outstanding balance of stiffness, toughness and environmental stress cracking resistance make *Hostalen* 5231H the choice of customers for the production of closures for water, CSD and many other types of food and non-food caps and closures.

This grade is not intended for medical and pharmaceutical applications.

Application	Caps & Closures; Collapsible Tubes
Market	Consumer Products; Rigid Packaging
Processing Method	Compression Molding; Injection Molding
Attribute	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)	2.0	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	5.6	g/10 min	ISO 1133-1
Density	0.952	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	25	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT, (6.0 MPa, 6.6% Dehyton PL, 50 °C)	13	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	10.4	kJ/m ²	ISO 179
(-30 °C)	5.3	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	70		ISO 868
Ball Indentation Hardness	50	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B50)	74	°C	ISO 306