

## Technical Data Sheet

### *Hostalen 5231H UV*



High Density Polyethylene

#### Product Description

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

*Hostalen 5231H UV* is formulated with an additive package used by customers for an optimised combination of organoleptic properties and opening torque.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Caps & Closures
<b>Market</b>	Consumer Products; Rigid Packaging
<b>Processing Method</b>	Compression Molding; Injection Molding
<b>Attribute</b>	Good Organoleptic Properties; Good Toughness; High Density; High ESCR (Environmental Stress Cracking Resistance)

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
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 <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	10.4	kJ/m <sup>2</sup>	ISO 179
(-30 °C)	5.3	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Shore Hardness, (Shore D)	70		ISO 868
Ball Indentation Hardness	50	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (B50)	74	°C	ISO 306