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.

Application	Caps & Closures
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/cm³	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/m²	ISO 179
(-30 °C)	5.3	kJ/m²	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