



## Purell GB7250

### Polyethylene, High Density

#### Product Description

Purell GB7250 is an HDPE material which exhibits good flowability and high rigidity behaviours.

Exceptional organoleptic properties and a good balance of stiffness, toughness and processability make Purell GB7250 the choice of customers for the production of closures for still mineral water and many other types of food and non-food caps and closures as well as tube shoulders.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Methods</b>	Injection Molding
<b>Features</b>	High Density, Ethylene Oxide Sterilisation, Good Flow, High Rigidity, Low Warpage
<b>Typical Customer Applications</b>	Caps & Closures, Caps & Closures (Healthcare), Collapsible Tubes, Healthcare Applications

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.952	g/cm <sup>3</sup>
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		10	g/10 min
(190°C/5.0kg)		28	g/10 min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1000	MPa
Tensile Stress at Yield	ISO 527-1, -2	24	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
ESCR (Basell)	Basell Method	2.5	hr
<i>Note: FNCT (Full Notch Creep Test), 6MPa, 2% Arkopal, 50°C</i>			
<b>Impact</b>			
Charpy notched impact strength	ISO 179		
(-30 °C, Type 1, Edgewise, Notch A)		2.0	kJ/m <sup>2</sup>
(23 °C, Type 1, Edgewise, Notch A)		2.5	kJ/m <sup>2</sup>
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	61	
Ball indentation hardness (H132/30)	ISO 2039-1	46	MPa
<b>Thermal</b>			
Vicat softening temperature B/50	ISO 306	64	°C

#### Additional Properties

Recommended processing temperatures: 190°C to 230°C.

#### Notes

Typical properties; not to be construed as specifications.