



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

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

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.952	g/cm³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		10	g/10 min
(190°C/5.0kg)		28	g/10 min
Mechanical			
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
Note: FNCT (Full Notch Creep Test), 6MPa, 2% Arkopal, 50°C			
Impact			
Charpy notched impact strength	ISO 179		
(-30 °C, Type 1, Edgewise, Notch A)		2.0	kJ/m²
(23 °C, Type 1, Edgewise, Notch A)		2.5	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	61	
Ball indentation hardness (H132/30)	ISO 2039-1	46	MPa
Thermal			
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.