Hostalen GD 4755

Polyethylene, High Density

Product Description

Exceptional organoleptic properties and a good balance of stiffness, toughness and environmental stress cracking resistance make *Hostalen* GD4755 the choice of customers for the production of closures for sparkling water, CSD and many other types of food and non-food caps and closures. Customers also use this material for engineering parts.

This grade is not intended for use in medical or pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Compression Molding, Injection Molding
Features	High Density, High ESCR (Environmental Stress Cracking Resistance), Good Organoleptic Properties , Good Toughness
Typical Customer Applications	Caps & Closures

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.953	g/cm³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		1.9	g/10 min
(190°C/5.0kg)		6.0	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1100	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
ESCR (Basell)	Basell Method	8	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)		4.5	kJ/m²
(23 °C, Type 1, Edgewise, Notch A)		6	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	62	
Ball indentation hardness (H132/30)	ISO 2039-1	51	MPa
Thermal			
Vicat softening temperature B/50	ISO 306	75	°C

Additional Properties

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

Notes

Typical properties; not to be construed as specifications.