



Hostalen GF 4750

Polyethylene, High Density

Product Description

Hostalen GF 4750 is a high density polyethylene with a good ESCR, containing antioxidants and delivered in pellet form. Target applications are small blow mouldings for packaging of consumer goods, surfactants, detergents and tubes.

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	Extrusion Blow Molding, Injection Blow Molding, Injection Molding
Features	Antioxidant, High ESCR (Environmental Stress Cracking Resistance), Good Flow
Typical Customer Applications	Bottles For Consumer Goods, Bottles for Industrial Use, Caps & Closures, Collapsible Tubes

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.950	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		0.4	g/10 min
(190°C/21.6kg)		30	g/10 min
(190°C/5.0kg)		1.5	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1000	MPa
Tensile Stress at Yield	ISO 527-1, -2	23.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
ESCR (Basell)	Basell Method	65	hr
<i>Note: FNCT (Full Notch Creep Test), 6MPa, 2% Arkopal, 50°C</i>			
Impact			
Charpy notched impact strength	ISO 179		
(-30 °C, Type 1, Edgewise, Notch A)		5.5	kJ/m ²
(23 °C, Type 1, Notch A)		12.0	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	60	
Ball indentation hardness (H 132/30)	ISO 2039-1	44.0	MPa
Thermal			
Vicat softening temperature B/50	ISO 306	70	°C

Additional Properties

FNCT (Full Notch Creep Test), 3,5MPa, 2% Arkopal, 80°C, 15h

Recommended processing temperatures: 170°C to 220°C.

Notes

Typical properties; not to be construed as specifications.