

Hostalen GF 4750

High Density Polyethylene
LyondellBasell Industries

Message:

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.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Flow		
	High ESCR (Stress Crack Resist.)		
Uses	Blow Molding Applications		
	Bottles		
	Caps		
	Closures		
	Consumer Applications		
	Industrial Applications		
	Packaging		
	Tubing		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
	Injection Blow Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.40	g/10 min	
190°C/21.6 kg	30	g/10 min	
190°C/5.0 kg	1.5	g/10 min	
Full Notch Creep Test			Internal Method
50°C ¹	2.7	day	
80°C ²	0.6	day	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 868
Ball Indentation Hardness (H 132/30)	44.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	1000	MPa	ISO 527-2
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m ²	
23°C	12	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 220	°C	
NOTE			
1.	6 MPa, 2% Arkopal		
2.	3.5 MPa, 2% Arkopal		

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