

Hostalen GF 4750

High Density Polyethylene
LyondellBasell Industries

Technical Data			
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.			
General			
Material Status	• Commercial: Active		
Literature ¹	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet - ISO (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen		
Availability	• Africa & Middle East	• Europe	
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/cm³		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 ³	2.7 day		
80°C ⁴	0.6 day		
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/m²		
23°C	12 kJ/m²		
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
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		