

Technical Data Sheet

Purell PE GF4760

High Density Polyethylene



Product Description

Purell PE GF4760 is a high density polyethylene with good ESCR, high rigidity and good organoleptic properties. It contains antioxidants and is delivered in pellet form. The grade is used by our customers for small blow mouldings for foodstuff, consumer goods as well as pharmaceutical packaging. This grade is also well established for injection blow moulding applications.

Application	Bottles and Vials; Diagnostic Applications; Healthcare Applications; Medical Devices
Market	Consumer Products; Healthcare; Rigid Packaging
Processing Method	Extrusion Blow Molding; Injection Blow Molding; Injection Molding
Attribute	Antioxidant; Ethylene Oxide Sterilisation; Good Flow; Good Organoleptic Properties; High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.4	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	1.5	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	30	g/10 min	ISO 1133-1
Density	0.956	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT			
(6.0 MPa, 2% Arkopal N100, 50 °C)	19	hr	ISO 16770
(4.0 MPa, 2% Arkopal N100, 80 °C)	3	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched, (-30 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	62		ISO 868
Ball Indentation Hardness, (H 132/30)	51	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B50)	77	°C	ISO 306

