

Purell PE GF 4760

Polyethylene, High Density

Product Description

Purell PE GF 4760 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.

Product Characteristics				
Status Commercial: A		Active		
Test Method used ISO				
Processing Methods Extrusion Blo Injection Mole		w Molding, Injection Blow Molding, ding		
Features	Antioxidant, Ethylene Oxide Sterilisation, Good Flow, Good Organoleptic Properties , High Rigidity			
Typical Customer Applications	Bottles and vials, Diagnostic applications, Healthcare Applications, Medical Devices			
Typical Properties		Method	Value	Unit
Physical				
Density		ISO 1183	0.956	g/cm³
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
Bulk density		ISO 60	>0.500	g/cm³
Mechanical				
Tensile Modulus		ISO 527-1, -2	1250	MPa
Tensile Stress at Yield		ISO 527-1, -2	27.0	MPa
Tensile Strain at Yield		ISO 527-1, -2	10	%
Tensile Impact Strength		ISO 8256	90	kJ/m²
Note: notched				
Impact				
Charpy notched impact strength (-30 °C, Type 1, Notch A)		ISO 179	8.00	kJ/m²
Hardness				
Shore hardness (Shore D)		ISO 868	62	
Ball indentation hardness (H 132/30)		ISO 2039-1	51.0	MPa
Thermal				
Vicat softening temperature (B50 (50°C/h 50N))		ISO 306	77.0	°C

Additional Properties

Staudinger Index Jg, ISO 1628: 280 ml/g FNCT: 2.5 MPa, 2% Arcopal, 80°C, ISO 16770: 15 h FNCT: 3.5 MPa, 2% Arcopal, 80°C, ISO 16770: 5 h ESCR - Basell bottle test: 30 h

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

Notes

Typical properties; not to be construed as specifications.



