



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. Target applications are 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: Active
Test Method used	ISO
Availability	Europe, North America
Processing Method	Injection Blow Moulding, Extrusion Blow Moulding
Features	Antioxidant, Good Flow, Good Organoleptic Properties , High Rigidity
Typical Applications	Customer Blow Moulding Applications, Medical, Medical Devices, Pharmaceutical

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.956	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
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus	ISO 527-1, 1250-2		MPa
Tensile Stress at Yield	ISO 527-1, 27.0-2		MPa

Tensile Strain at Yield		<div> <div>(+) 188 1699 6168</div> <div>hongrunplastics.com</div> </div>		%
		-2		
Tensile Impact Strength		ISO 8256	90	kJ/m ²
<i>Note:</i> notched				
Impact				
Charpy	notched	impact ISO 179	8.00	kJ/m ²
strength (-30 °C, Type 1, Notch A)				
Hardness				
Shore hardness (Shore D)		ISO 868	62	
Ball indentation hardness	(H ISO 2039-1	51.0		MPa
132/30)				
Thermal				
Vicat softening temperature	ISO 306	77.0		°C
(B50 (50°C/h 50N))				
Film				
Melt Temperature		180 to 220		°C

Notes

Typical properties; not to be construed as specifications.

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