

# Purell PE GF 4760

High Density Polyethylene

LyondellBasell Industries

## Message:

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.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Ethylene Oxide Sterilizable
	Good Flow
	Good Organoleptic Properties
	High ESCR (Stress Crack Resist.)
Uses	High Rigidity
	Blow Molding Applications
	Bottles
	Consumer Applications
	Medical/Healthcare Applications
	Packaging
	Pharmaceutical Packaging
	Pharmaceuticals
Forms	Vials
	Pellets
Processing Method	Extrusion Blow Molding
	Injection Blow Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm <sup>3</sup>	ISO 1183
Apparent Density	> 0.50	g/cm <sup>3</sup>	ISO 60
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	
Basell Bottle Test	1.3	day	Internal Method

FNCT			ISO 16770
80°C <sup>1</sup>	5.0	hr	
80°C <sup>2</sup>	15.0	hr	
Staudinger Index - Jg	280	cm <sup>3</sup> /g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Ball Indentation Hardness (H 132/30)	51.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1250	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	8.0	kJ/m <sup>2</sup>	ISO 179/1A
Tensile Impact Strength	90.0	kJ/m <sup>2</sup>	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	77.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	3.5 MPa, 2% Arcopal		
2.	2.5 MPa, 2% Arcopal		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT