Purell PE GF 4750

High Density Polyethylene

LyondellBasell Industries

Message:

Purell PE GF 4750 is a high density polyethylene with a good ESCR, containing antioxidants and delivered in pellet form. The grade is used by our customers for small blow mouldings for packaging of consumer goods, surfactants, detergents as well as pharmaceuticals.
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
	High Density
	High ESCR (Stress Crack Resist.)
Uses	Blow Molding Applications
	Blown Film
	Bottles
	Caps
	Closures
	Medical/Healthcare Applications
	Packaging
	Pharmaceutical Packaging
	Tubing
	Vials
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	
Environmental Stress-Cracking Resistance (50°C, 2% Arkopal)	65.0	hr	ASTM D1693

FNCT - 6 MPa [1] (50°C)	2.7	day	Internal Method
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
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			
-30°C	5.5	kJ/m^2	ISO 179/1eA
23°C	12	kJ/m^2	ISO 179/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	70.0	°C	ISO 306/B50
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	170 to 220	°C	
NOTE			
1.	2% Arkopal		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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