

Pharmalene® BC 82 PH

High Density Polyethylene

Versalis S.p.A.

Message:

Pharmalene BC 82 PH is an high density polyethylene hexene copolymer, produced with gas phase technology. Its production is realized in conformity to the good manufacturing practices (GMP). The main use is in the pharmaceutical sector. The antioxidant additives used in it are approved by the polyethylene monography of the European Pharmacopoeia and used in compliance with it. The resin formulation is established by years of experience and it is not subject of changes.

Pharmalene BC 82 PH is a multipurpose blow moulding material. This technology is used for manufacturing containers for solid or bottles for liquid. Pharmalene BC 82 PH, thanks to its limited gels content, can be even used for film production.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	High Density		
Uses	Bottles		
	Containers		
	Film		
	Medical/Healthcare Applications		
	Non-specific Food Applications		
	Pharmaceuticals		
Agency Ratings	EP Unspecified Rating		
	EU No 10/2011		
	FDA Food Contact, Unspecified Rating		
	USP 34		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.25	g/10 min	
190°C/21.6 kg	23	g/10 min	
190°C/5.0 kg	0.90	g/10 min	
Environmental Stress-Cracking Resistance (Compression Molded)	> 60.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore D, Compression Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	27.0	MPa	
Break, Compression Molded	30.0	MPa	
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2
Flexural Modulus (Compression Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	180	J/m	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ISO 306/A
Melting Temperature	135	°C	Internal Method
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 to 180	°C	
Cylinder Zone 3 Temp.	185 to 195	°C	
Melt Temperature	195 to 205	°C	
Head Temperature	185 to 190	°C	

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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

