Pharmalene® MP 90 PH

High Density Polyethylene

Versalis S.p.A.

Message:

Pharmalene MP 90 PH is a homopolymer high density polyethylene (HDPE) with antioxidants obtained by gas phase process. Its production is manufactured according to good manufacturing practices (GMP). The narrow molecular weight distribution and the high density of Pharmalene MP 90 PH make it ideal for injection molding applications where are required high rigidity and resistance to distortion. The polymer during the transformation phase has excellent thermal stability.

The main use of the product is in the pharmaceutical industry. The antioxidant additives used 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 is not subject to change. Pharmalene MP 90 PH is ideal for injection molding to produce caps, closures, small containers and medical articles requiring high stiffness and hardness.

General Information					
Additive	Antioxidant				
Features	Antioxidant				
	Food Contact Acceptable				
	Good Thermal Stability				
	High Density				
	High Hardness				
	High Rigidity				
	High Stiffness				
	Homopolymer				
	Narrow Molecular Weight Distribution				
Uses	Caps				
	Closures				
	Containers				
	Medical/Healthcare Applications				
	Pharmaceuticals				
Agency Ratings	EP Unspecified Rating	EP Unspecified Rating			
	EU No 10/2011				
	FDA Food Contact, Unspecified Rating				
	USP 34				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Density	0.960	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR)			ISO 1133		
190°C/2.16 kg	7.0	g/10 min			
190°C/5.0 kg	20	g/10 min			

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection			
Molded)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	30.0	MPa	
Break, Injection Molded	17.0	MPa	
Tensile Strain (Break, Injection Molded)	400	%	ISO 527-2
Flexural Modulus (Injection Molded)	1450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	100	J/m	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ISO 306/A
Melting Temperature	137	°C	Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	190 to 260	°C	
Middle Temperature	190 to 260	°C	
Front Temperature	190 to 260	°C	
Mold Temperature	10.0 to 40.0	°C	

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

