

# Pharmalene® MP 20 PH

Low Density Polyethylene

Versalis S.p.A.

## Message:

Pharmalene MP 20 PH is a homopolymer low density polyethylene (LDPE) without additives obtained by high pressure autoclave process. It is manufactured according to good manufacturing practices (GMP).

The main use is in the pharmaceutical sector. Pharmalene MP 20 PH is suitable for injection moulding, medium thickness articles, and masterbatch applications. Thanks to its excellent organoleptic properties, the product can be used for coating and flexible packaging.

General Information			
Features	Excellent Organoleptic Properties		
	Low density		
	Homopolymer		
	High pressure heating resistance		
	Compliance of Food Exposure		
Uses	Packaging		
	Non-specific food applications		
	Bottle		
	Coating application		
	Drug		
	Medical/nursing supplies		
Agency Ratings	EP Unspecified Rating		
	FDA Food Exposure, Not Rated		
	USP 34		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	46		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, injection molding	9.00	MPa	ISO 527-2
Fracture, injection molding	11.0	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	500	%	ISO 527-2

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	85.0	°C	ISO 306/A
Melting Temperature	108	°C	Internal method
Injection	Nominal Value	Unit	
Rear Temperature	160 - 200	°C	
Middle Temperature	160 - 200	°C	
Front Temperature	160 - 200	°C	
Injection instructions			

Pharmalene MP 20 PH is easily processed in extrusion coating lines. The suggested temperature is 260÷330°C. Pharmalene MP 20 PH can be extruded at thickness lower than 10 µm.

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#### 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

