

TECHNICAL DATA SHEET

# PHARMALENE® FL 20 PH

Versalis S.p.A  
(PE-LD)

### Processing

Blown film extrusion, Film extrusion, Other extrusion, Blow molding

### Certifications

Food contact, Food approval 10/2011, Food approval FDA 21 CFR, Medical grade, US Pharmacopeia class VI approved

### Delivery Form

Pellets

### Applications

Medical

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	2.2	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	109	°C	ISO 11357-1/-3
Vicat softening temperature, A	90	°C	ISO 306
Optical Properties	Value	Unit	Standard
Haze	9		ISO 14782
Gloss	54		ASTM D 2457
Other Properties	Value	Unit	Standard
Density	921	kg/m <sup>3</sup>	ISO 1183
Film Properties	Value	Unit	Standard
Stress at yield, parallel	10	MPa	ISO 527-3
Stress at yield, normal	10	MPa	ISO 527-3
Stress at break, parallel	25	MPa	ISO 527-3
Stress at break, normal	19	MPa	ISO 527-3
Maximum strain, parallel	300	%	ISO 527-3
Maximum strain, normal	550	%	ISO 527-3
Dart drop A	190	g	ISO 7765-1
Dynamic coefficient of friction	0.5		ISO 8295

# PHARMALENE® FL 20 PH

Versalis S.p.A

Film Properties	Value	Unit	Standard
Type of extrusion	blown		
Thickness of specimen	0.04	mm	

  

Processing Recommendation Extrusion	Value	Unit	Standard
Type of extrusion	blown		
Melt temperature	160 - 190	°C	