



## Lupolen 1800 P

### Polyethylene, Low Density

#### Product Description

*Lupolen* 1800 P is a low density polyethylene (LDPE) resin used in injection molding and other processing methods. It exhibits high flowability, and good softness, toughness and dimensional stability. *Lupolen* 1800 P is delivered in pellet form and is not additivated. *Lupolen* 1800 P is used in applications such as compounding, toys, caps & closures, engineering parts, and sports and leisure equipment. *Lupolen* 1800 P is not intended for use in medical and pharmaceutical applications.

#### Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Compounding, Injection Molding
Features	Fast Cycle (Production) , Low Density, Good Flexibility, High Flow , Low Temperature Impact Resistance, Good Processability
Typical Customer Applications	Caps & Closures, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.918	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	15	g/10 min
<b>Mechanical</b>			
ESCR	ASTM D 1693	2	
Note: Tested in 10% nonionic surfactants			
Tensile Modulus	ISO 527-1, -2	200	MPa
Tensile Stress at Yield	ISO 527-1, -2	9	MPa
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	45	
Ball indentation hardness	ISO 2039-1	12	MPa
<b>Thermal</b>			
Melting Temperature	ISO 3146	105	°C
Vicat softening temperature A/50	ISO 306	80	°C

#### Additional Properties

Recommended processing temperature 180°C - 230°C

#### Notes

Typical properties; not to be construed as specifications.