



## Lupolen 1800 H

### Polyethylene, Low Density

#### Product Description

*Lupolen* 1800 H is a low density polyethylene (LDPE) resin used in a wide range of processing methods such as injection molding, blow molding and film extrusion. It exhibits very good softness and toughness and good dimensional stability. *Lupolen* 1800 H is delivered in pellet form and is not additivated. Typical customer applications include caps & closures, lids and champagne corks. *Lupolen* 1800 H 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	Blown Film, Extrusion Blow Molding, Injection Molding
Features	Low Density, Good Flexibility, Low Temperature Impact Resistance, Good Processability
Typical Customer Applications	Blow Moulding Applications, Bottles For Consumer Goods, Caps & Closures, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.919	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	1.5	g/10 min
<b>Mechanical</b>			
ESCR	ASTM D 1693	5	h
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 (H 49/30)	ISO 2039-1	15	MPa
<b>Thermal</b>			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	88	°C
Melting Temperature	ISO 3146	108	°C

#### Additional Properties

Spiral length (2mm/1000bar/180°C) Basell method: 36cm  
Recommended processing temperature 180°C - 230°C

#### Notes

Typical properties; not to be construed as specifications.