## **Technical Data Sheet**

## Lupolen 1800S

Low Density Polyethylene

## **Product Description**

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

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Lupolen 1800S is not intended for use in medical and pharmaceutical applications.

Application	Caps & Closures; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Fast Cycle (Production); Good Flexibility; Good Processability; Low Density; Low Temperature Impact Resistance

	Nominal Value	Units	Test Method
Typical Properties			
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	20	g/10 min	ISO 1133-1
Density	0.917	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	160	MPa	ISO 527-1, -2
Tensile Stress at Yield	8	MPa	ISO 527-1, -2
Environmental Stress Crack Resistance, F50	1.5	hr	ASTM D1693
Note: Cond. B, 10% Arkopal N100			
Hardness			
Shore Hardness, (Shore D)	45		ISO 868
Ball Indentation Hardness, (H 49/30)	13	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A/50 N)	81	°C	ISO 306
Peak Melting Point	106	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	180 - 230	°C	



