



Lupolen 1800 S

Polyethylene, Low Density

Product Description

Lupolen 1800 S 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 S is delivered in pellet form and is not additivated. *Lupolen* 1800 S is used in applications such as toys, caps & closures, engineering parts, and sports and leisure equipment. *Lupolen* 1800 S 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
Physical			
Density	ISO 1183	0.917	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	20	g/10 min
Mechanical			
ESCR	ASTM D 1693	1.5	
<i>Note: Tested in 10% nonionic surfactants</i>			
Tensile Modulus	ISO 527-1, -2	160	MPa
Tensile Stress at Yield	ISO 527-1, -2	8	MPa
Hardness			
Shore hardness (Shore D)	ISO 868	45	
Ball indentation hardness	ISO 2039-1	13	MPa
Thermal			
Melting Temperature	ISO 3146	106	°C
Vicat softening temperature A/50	ISO 306	80	°C

Additional Properties

Spiral length (2mm/1000bar/180°C) Basell method: 65cm
Recommended processing temperature 180°C - 230°C

Notes

Typical properties; not to be construed as specifications.