

Technical Data Sheet

Lupolen 1800P



Low Density Polyethylene

Product Description

Lupolen 1800P is a low density polyethylene 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 1800P is used in applications such as compounding, toys, caps & closures, engineering parts, and sports and leisure equipment.

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

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	15	g/10 min	ISO 1133-1
Density	0.918	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	200	MPa	ISO 527-1, -2
Tensile Stress at Yield	9	MPa	ISO 527-1, -2
Environmental Stress Crack Resistance, F ₅₀ Note: Cond. B, 10% Arkopal N100	2	hr	ASTM D1693
Hardness			
Shore Hardness, (Shore D)	45		ISO 868
Ball Indentation Hardness, (H 49/30)	12	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A/50)	82	°C	ISO 306
Peak Melting Point	105	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	180 - 230	°C	