



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

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|--------------------------------------|---|
| 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 | 0.918 | g/cm ³ |
| Melt flow rate (MFR) (190°C/2.16kg) | ISO 1133 | 15 | g/10 min |
| Mechanical | | | |
| ESCR | ASTM D 1693 | 2 | |
| <i>Note: Tested in 10% nonionic surfactants</i> | | | |
| Tensile Modulus | ISO 527-1, -2 | 200 | MPa |
| Tensile Stress at Yield | ISO 527-1, -2 | 9 | MPa |
| Hardness | | | |
| Shore hardness (Shore D) | ISO 868 | 45 | |
| Ball indentation hardness | ISO 2039-1 | 12 | MPa |
| Thermal | | | |
| 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.