

Technical Data Sheet

Lucalen A2700P

Low Density Polyethylene



Product Description

Lucalen A2700P is a low density polyethylene, containing butyl acrylate comonomer. It exhibits low stiffness, low hardness and good impact properties at low temperature.

Lucalen A2700P is suitable for industrial applications where a combination of good processability and excellent softness is required.

It is compatible with other *Lucalen* grades and is miscible with other ethylene copolymers, PE-LD, PE-HD and PE-LLD. The grade is available in natural pellet form.

This grade is not intended for medical and pharmaceutical applications.

Application	Bitumen Modification; Polymer Modifier; Soft Profile & Sheets; TPO Foils and Skins; Wire & Cable
Market	Compounding; Industrial, Building & Construction
Processing Method	Cast Film; Compounding; Extrusion Coating; Injection Molding
Attribute	Good Adhesion; Good Chemical Resistance; Good ESCR (Environmental Stress Cracking Resistance); Good Optical Properties; Good Processability; High Filler Loading Capability; High Flow; Low Temperature Flexibility; Low Temperature Impact Resistance; Soft

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	15	g/10 min	ISO 1133-1
Density	0.924	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	40	MPa	ISO 178
Tensile Stress at Break	9	MPa	ISO 527-1, -2
Tensile Strain at Break	600	%	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D)	29		ISO 868
Thermal			
Vicat Softening Temperature, (A/50 N)	55	°C	ISO 306
Peak Melting Point	93	°C	ISO 11357-3
Additional Information			
Comonomer BA	17	%	DIN 51451

