

Technical Data Sheet

Lucalen A2700M

Low Density Polyethylene



Product Description

Lucalen A2700M is a low density polyethylene, containing butyl acrylate comonomer. It exhibits low stiffness, low hardness and good impact properties at low temperature.

Lucalen A2700M 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	Geomembranes; Polymer Modifier; Single Ply Roofing; Soft Profile & Sheets; Specialty Film; TPO Foils and Skins; Wire & Cable
Market	Compounding; Industrial, Building & Construction
Processing Method	Blown Film; Cast Film; Compounding; Compression Molding; Extrusion Flat-die; Injection Molding
Attribute	Durable; Good Adhesion; Good Chemical Resistance; Good Colorability; Good Flexibility; Good Optical Properties; Good Processability; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; Low Hardness; Low Temperature Flexibility; Low Temperature Impact Resistance; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	7.2	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.924	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	42	MPa	ISO 178
Tensile Stress at Break	11	MPa	ISO 527-1, -2
Tensile Strain at Break	> 800	%	ISO 527-1, -2
Environmental Stress Crack Resistance	> 1600	hr	ASTM D1693
Impact			
Notched Izod Impact Strength, (-40 °C)	NB	kJ/m ²	ISO 180
Hardness			
Shore Hardness, (Shore D)	30		ISO 868
Thermal			
Vicat Softening Temperature, (A/50 N)	60	°C	ISO 306
Peak Melting Point	95	°C	ISO 11357-3
Additional Information			
Comonomer BA	17	%	DIN 51451

