Lucalen A2700H

Polyethylene, Low Density

Product Description

Lucalen A2700H is a low density polyethylene, containing butyl acrylate comonomer.
It exhibits low stiffness, low hardness and good impact properties at low temperature.
Lucalen A2700H 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 use in medical or pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific
Processing Methods	Compression Molding, Extrusion Flat-die, Extrusion Wire, Blown Film, Cast Film, Extrusion Pipe Sheet and Semi Finished Products
Features	Good Adhesion, Good Chemical Resistance, Good Colorability, Durable, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, Low Temperature Flexibility, Low Hardness , High Impact Resistance , Low Temperature Impact Resistance, Good Optical Properties, Paintable, Good Processability, Weldable
Typical Customer Applications	Blown Film, Cast Film, Film, Geomembranes, Industrial, Polymer modifier, Single Ply Roofing, Soft Profile & Sheets, Speciality Film, TPO Foils and Skins, Wire & Cable

Typical Properties	**Method**	**Value**	**Unit**
Physical			
Density (Method A)	ISO 1183	0.922	g/cm³
Melt flow rate (190/2.16)	ISO 1133	1.4	g/10 min
Mechanical			
ESCR	ASTM D 1693	> 1600	hr
Tensile Stress at Break	ISO 527-1, -2	12	MPa
Tensile Strain at Break	ISO 527-1, -2	> 800	%
Note: Type 5A - Compression molded plaques			
Flexural modulus	ISO 178	50	MPa
Impact			
Notched izod impact strength (-40, Type 1, Notch A)	ISO 180	NB	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	34	
Thermal			
Melting temperature	DSC	97	°C
Vicat softening temperature A/50	ISO 306	70	°C

Additional Properties

Recommended processing temperatures: 180°C to 200°C.

Notes

Typical properties; not to be construed as specifications.