

Technical Data Sheet

Lucalen A2540D



Low Density Polyethylene

Product Description

Lucalen A 2540 D is a low density polyethylene, containing n-butyl acrylate as comonomer. It is used in greenhouse film and stretch hood film. It is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

Application	Agriculture Film; Food Packaging Film; Heavy Duty Packaging; Shrink Film; Stretch Hood
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Copolymer; Good Processability; Good Toughness; High Elasticity; Low Temperature Flexibility

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.25	g/10 min	ISO 1133-1
Density	0.923	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	120	MPa	ISO 527-1, -2
Tensile Stress at Yield	7.0	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	600	g	ASTM D1709
Tensile Strength			
MD	26	MPa	ISO 527-1, -3
TD	22	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	350	%	ISO 527-1, -3
TD	550	%	ISO 527-1, -3
Coefficient of Friction	0.8		ISO 8295
Impact			
Failure Energy	19	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50)	85	°C	ISO 306
Peak Melting Point	103	°C	ISO 11357-3
Optical			
Haze, (50 µm)	<13	%	ASTM D1003

Gloss		
(20°)	>20	ASTM D2457
(60°)	>70	ASTM D2457
Additional Information		
Comonomer BA	6.5 %	DIN 51451
Test Specimen	Film	
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 200°C and a blow-up ratio of 2:1.		
Processing Parameters		
Extrusion Temperature	160-200 °C	