



## Lucalen A 2540 D

### Polyethylene, Low Density

#### Product Description

Lucalen A 2540 D is a low density polyethylene, containing comonomer. It is delivered in pellet form.

Foodlaw compliance information about this product can be found in separate product documentation.

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

#### Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Blown Film
Features	High Elasticity, Low Temperature Flexibility, Good Processability, Good Toughness
Typical Customer Applications	Film, Food Packaging Film, Heavy Duty Packaging, Pipe Coating, Products for Use in Property Modification, Shrink Film, Stretch Hood

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.923	g/cm³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.25	g/10 min
Mechanical			
Dart drop impact (50µm, Blown Film)	ASTM D 1709	600	g
Tensile Modulus	ISO 527-1, -2	120	MPa
Tensile Stress at Yield	ISO 527-1, -2	7.0	MPa
Tensile Strength	ISO 527-1, -3	26.0	MPa
Note: MD		22.0	MPa
Note: TD			
Tensile Strain at Break	ISO 527-1, -3	350	%
Note: MD		550	%
Note: TD			
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	86.0	°C
Melting Temperature	ISO 3146	103	°C
Optical			
Haze (50µm)	ASTM D 1003	<13	%
Gloss	ASTM D 2457		
(20°, 50µm)		>20	
(60°, 50µm)		>70	
Film			
Melt Temperature		160 to 200	°C

#### Additional Properties

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.  
Comonomer nBA, DIN 51451: 6.5%  
Failure Energy, DIN 53373, 70µm: 19 J/mm  
Coefficient of Friction, ISO 8295: >80%  
Recommended Thickness: 60 to 220 µm

#### Notes

Typical properties; not to be construed as specifications.