

Lucalen A 2540 D

Ethylene Butyl Acrylate Copolymer

LyondellBasell Industries

Message:

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.

General Information			
Features	Flexibility at low temperatures		
	High elasticity		
	Workability, good		
	Good toughness		
Uses	Packaging		
	Films		
	Pipeline coating		
	Food packaging		
	Shrinkable film		
	Plastic modification		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ISO 1133
n-Butyl Acrylate Content	6.5	wt%	DIN 51451
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	120	MPa	ISO 527-2
Tensile Stress (Yield)	7.00	MPa	ISO 527-2
Coefficient of Friction	> 0.80		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	2.4-8.7 mil (60-220 µ)		
Tensile Strength			ISO 527-3
MD: 50 µm, blown film	26.0	MPa	ISO 527-3
TD: 50 µm, blown film	22.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	350	%	ISO 527-3
TD: Broken, 50 µm, blown film	550	%	ISO 527-3

Dart Drop Impact (50 µm, Blown Film)	600	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ISO 306/A50
Melting Temperature (DSC)	103	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
20, 50.0 µm, blown film	> 20		ASTM D2457
60, 50.0 µm, blown film	> 70		ASTM D2457
Haze (50.0 µm, Blown Film)	< 13	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Failure Energy (70.0 µm)	190	J/cm	DIN 53373
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.			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 200	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

