

BorLite™ OPE797

Linear Low Density Polyethylene

Borealis AG

Message:

BorLite OPE797 is a high molecular weight linear low density polyethylene film grade providing high melt strength for good processing behaviour of primary films on blown film technology as well as excellent draw down on mono directional orientation (MDO) lines. MDO-films made of this product are characterised by very high toughness and balanced MD/TD tear resistance.

BorLite OPE797 has been developed especially for property-enhancement of blown films through mono-directional orientation (MDO technology).

BorLite OPE797 is recommended for:

Heavy-duty bags

Industrial films

Consumer packaging

Compression packaging

Twist wrap

Label film

BorLite OPE792 contains antioxidant.

General Information			
Additive	Antioxidation		
Features	Ultra high toughness		
	High molecular weight		
	Antioxidation		
	Workability, good		
	Good stripping		
	Good melt strength		
	Good tear strength		
Uses	Packaging		
	Films		
	Label		
	Directional film		
	Heavy packing bag		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	15	g/10 min	ISO 1133
190°C/5.0 kg	0.60	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3
MD: 25 µm, blown film	900	MPa	ISO 527-3
TD: 25 µm, blown film	1300	MPa	ISO 527-3

Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	240	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	25.0	MPa	ISO 527-3
MD: 25 µm, blown film	245	MPa	ISO 527-3
TD: 25 µm, blown film	35.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	45	%	ISO 527-3
TD: Broken, 25 µm, blown film	810	%	ISO 527-3
Dart Drop Impact (25 µm)	590	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 25.0 µm	120.0	kN/m	ISO 6383-2
TD : 25.0 µm	190.0	kN/m	ISO 6383-2
Puncture Resistance - Energy to Break (25.0 µm) ²	410	J/cm	ISO 7765-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	110	°C	ISO 306/A
Melting Temperature	129	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Haze (25.0 µm, Blown Film)	18	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Film properties are measured on a 25 µm MD-oriented film sample, DDR 1:6. Primary film produced on a 70 mm extruder, BUR=1:2.7, Die gap: 1.2 mm, FLH 2-4 DD, thickness 150 µm			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 2 Temp.	190	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	190	°C	
Cylinder Zone 5 Temp.	190	°C	
Melt Temperature	190 - 210	°C	
Die Temperature	190	°C	
NOTE			
1.	Blown Film		
2.	Blown Film		

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