

Lupolen 2421 F

Low Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 2421 F is an additivated, low density polyethylene. It contains an antioxidant and 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			
Additive	Antioxidant		
Features	Antioxidant		
	Good Heat Seal		
	Good Melt Strength		
	Good Processability		
	Opticals		
Uses	Bags		
	Blow Molding Applications		
	Blown Film		
	Film		
	Shrink Wrap		
Forms	Pellets		
Processing Method	Blown Film		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	260	MPa	ISO 527-2
Tensile Stress (Yield)	11.0	MPa	ISO 527-2
Coefficient of Friction	> 0.80		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	25 to 100 µm		
Tensile Strength			ISO 527-3
MD : 50 µm, Blown Film	26.0	MPa	
TD : 50 µm, Blown Film	24.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 50 µm, Blown Film	300	%	

TD : Break, 50 µm, Blown Film	600	%	
Dart Drop Impact (50 µm, Blown Film)	150	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A50
Melting Temperature (DSC)	111	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
20°, 50.0 µm, Blown Film	> 40		
60°, 50.0 µm, Blown Film	> 90		
Haze (50.0 µm, Blown Film)	< 8.0	%	ASTM D1003
Additional Information	Nominal Value		Test Method
Failure Energy ¹ (50.0 µm)	5.50		DIN 53372
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 220	°C	
NOTE			
1.	Blown Film		

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Recommended distributors for this material

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

