

Lupolen 2421 H

Low Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 2421 H 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	Antioxidation		
Features	Optical		
	Antioxidation		
	Workability, good		
	Good heat sealability		
Uses	Films		
	Bags		
	cast film		
	Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	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 - Tested	50	µm	
Film Thickness - Recommended / Available	20-100 µm		
Tensile Strength			ISO 527-3
MD: 50 µm, blown film	25.0	MPa	ISO 527-3
TD: 50 µm, blown film	21.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	250	%	ISO 527-3
TD: Broken, 50 µm, blown film	600	%	ISO 527-3

Dart Drop Impact (50 µm, Blown Film)	110	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°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	> 50		ASTM D2457
60, 50.0 µm, blown film	> 100		ASTM D2457
Haze (50.0 µm, Blown Film)	< 8.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Erucamide	0.050	%	DIN 51454
Failure Energy (50.0 µm)	40.0	J/cm	DIN 53373
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 1:2.5.			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 200	°C	

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