

Lupolen 3721 C

Medium Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 3721 C is a medium density polyethylene. It contains antioxidants 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	Antioxidation		
	Impact resistance, high		
	Good stripping		
	Good heat sealability		
Uses	Bags		
	Food packaging		
	Plastic modification		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	13	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	700	MPa	ISO 527-2
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Thickness - Recommended / Available	0.4-2 mil (10-50 µ)		
Tensile Strength			ISO 527-3
MD: 20 µm, blown film	50.0	MPa	ISO 527-3
TD: 20 µm, blown film	48.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 20 µm, blown film	650	%	ISO 527-3
TD: Broken, 20 µm, blown film	650	%	ISO 527-3
Dart Drop Impact (20 µm, Blown Film)	120	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ISO 306/A50
Melting Temperature (DSC)	127	°C	ISO 3146
Additional Information	Nominal Value	Unit	Test Method

Failure Energy (20.0 μm)	70.0	J/cm	DIN 53373
Film properties tested using 20 μm thickness blown film extruded at a melt temperature of 220°C, long stalk process, and a blow-up ratio of 1:4.			
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 240	°C	

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