



## Lupolen 3721 C

### Polyethylene, Medium Density

#### Product Description

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.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe
<b>Processing Methods</b>	Blown Film
<b>Features</b>	Antioxidant, Good Drawdown, Good Heat Seal, High Impact Resistance
<b>Typical Customer Applications</b>	Bags & Pouches, Food Packaging Film, Products for Use in Property Modification

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density (23°C)	ISO 1183	0.937	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	12.5	g/10 min
<b>Mechanical</b>			
Dart drop impact (20 µm, Blown Film)	ASTM D 1709	120	g
Tensile Modulus	ISO 527-1, -2	700	MPa
Tensile Strength	ISO 527-1, -3	50	MPa
<i>Note: MD</i>		48	MPa
<i>Note: TD</i>			
Tensile Strain at Break	ISO 527-1, -3	650	%
<i>Note: MD</i>		650	%
<i>Note: TD</i>			
<b>Thermal</b>			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	121	°C
Melting Temperature	ISO 3146	127	°C
<b>Film</b>			
Melt Temperature		180 to 240	°C

#### Additional Properties

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.

Failure Energy, DIN 53373, 20 µm: 7 J/mm

Recommended Film Thickness: 10 to 50 µm

#### Notes

Typical properties; not to be construed as specifications.