Technical Data Sheet

Lupolen 3721C

High Density Polyethylene

Product Description

Lupolen 3721 C is a medium density polyethylene with hexene as comonomer.
It exhibits a good processability and is used in stiff films and as blending component for LDPE.
It contains antioxidants and is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

Application	Bags & Pouches; Food Packaging Film; Heavy Duty Packaging; Liner Film
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Antioxidant; Good Drawdown; Good Heat Seal

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.6	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	12.5	g/10 min	ISO 1133-1
Density	0.937	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	700	MPa	ISO 527-1, -2
Tensile Stress at Yield	20	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	120	g	ASTM D1709
Tensile Strength			
MD	50	MPa	ISO 527-1, -3
TD	48	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	650	%	ISO 527-1, -3
TD	650	%	ISO 527-1, -3
Impact			
Failure Energy	7	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50 N)	121	°C	ISO 306
Peak Melting Point	127	°C	ISO 11357-3
Additional Information			
Test Specimen	Film		
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 4:1.			
Processing Parameters			
Extrusion Temperature	180-240	°C	

Notes

These are typical property values not to be construed as specification limits.