



Lupolen 2420 D

Polyethylene, Low Density

Product Description

It is a low density Polyethylene with the following features:

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Method	Injection Blow Moulding, Blown film, Extrusion Blow Moulding
Features	Processability, Good, Tear Strength, Good, Toughness, Good
Typical Customer Applications	Bags & Pouches, Film, Shrink Film, Bottles For Consumer Goods, Blown Film

Typical Properties	Method	Value Unit
Physical		
Density	ISO 1183	0.923 g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.25 g/10 min
Mechanical		
Tensile Modulus	ISO 527-1, -2	240 MPa
Tensile Stress at Yield	ISO 527-1, -2	10.0 MPa
Tensile Strength	ISO 527-1, -3	27.0 MPa
<i>Note: MD</i>		20.0 MPa
<i>Note: TD</i>		
Tensile Strain at Break	ISO 527-1, -3	200 %
<i>Note: MD</i>		600 %
<i>Note: TD</i>		
Hardness		
Shore hardness (Shore D)	ISO 868	48
Ball indentation hardness (H 49/30)	ISO 2039-1	17.0 MPa
Thermal		
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	94.0 °C
Melting Temperature	ISO 3146	109 °C
Film		
Melt Temperature		170 to 220 °C

Notes

Typical properties; not to be construed as specifications.

Additional Properties

Film properties tested using 70 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2:1.

Failure Energy, DIN 53373, 70µm: 6.5 J/mm

Coefficient of Friction, ISO 8295: 70%

Recommended Thickness: 70 to 220 µm

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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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