Lupolen 2420 H

Low Density Polyethylene

LyondellBasell Industries

IDES | Prospector

Product Description
Lupolen 2420 H is a non-additivated, low density Polyethylene. It is delivered in pellet form.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Latin America	• Asia Pacific • Europe	• North America
Features	• Opticals	• Good Processability	• Good Heat Seal
Uses	• Bags • Shrink Wrap	• Film • Cast Film	
Forms	• Pellets		
Processing Method	• Cast Film	• Blown Film	

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	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	50.0	µm	
Film Thickness - Recommended / Available	0.8-3.9 mil (20-100 µ)		
Tensile Strength			ISO 527-3
MD: 50.0 µm, Blown Film	26.0	MPa	
TD: 50.0 µm, Blown Film	18.0	MPa	
Tensile Elongation			ISO 527-3
TD: Break, 50.0 µm, Blown Film	600	%	
MD: Break, 50.0 µm, Blown Film	250	%	
Dart Drop Impact (50.0 µm, Blown Film)	110	g	ASTM D1709
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	48		ISO 868
Ball Indentation Hardness (H 49/30)	18.0	MPa	ISO 2039-1
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
60°, 50.0 µm, Blown Film	> 100		
20°, 50.0 µm, Blown Film	> 50		
Haze (50.0 µm, Blown Film)	< 8.0	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Failure Energy (0.0500 mm)	4000	J/m	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 2:1.

Extrusion	Nominal Value	Unit
Melt Temperature	160 to 200	°C

Notes

[1] Typical properties: these are not to be construed as specifications.

Revision History
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