Lupolen 3020 F

Low Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 3020 F is a non-additivated, low density polyethylene with high rigidity, good opticals and good chemical resistance. It 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	
Features	Rigidity, high Rigid, good Optical Workability, good Good chemical resistance
Uses	Films Protective coating Bags Food packaging Shrinkable film
Processing Method	Blow film Extrusion blow molding

Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	300	MPa	ISO 527-2
Tensile Stress (Yield)	12.0	MPa	ISO 527-2
Coefficient of Friction (Blown Film)	> 0.80		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	1-3.1 mil (25-80 µ)		
Tensile Strength			ISO 527-3
MD: 50 µm, blown film	27.0	MPa	ISO 527-3
TD: 50 µm, blown film	22.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	300	%	ISO 527-3
TD: Broken, 50 µm, blown film	600	%	ISO 527-3

Dart Drop Impact (50 µm, Blown Film)	120	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	100	°C	ISO 306/A50
Melting Temperature (DSC)	114	°C	ISO 3146
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
20, 50.0 µm, blown film	> 50		ASTM D2457
60, 50.0 µm, blown film	> 100		ASTM D2457
Haze (50.0 µm, Blown Film)	< 6.5	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Failure Energy - Blown Film (50.0 µm)	40.0	J/cm	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	170 - 220	°C	

Recommended distributors for this material

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