

Lupolen 3020 K

Low Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 3020 K 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 heat sealability		
	Good chemical resistance		
Uses	Films		
	Laminate		
	cast film		
	Food packaging		
	Shrinkable film		
Appearance	Pearl color		
Forms	Particle		
Processing Method	Blow film		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	300	MPa	ISO 527-2
Tensile Stress (Yield)	13.0	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	0.6-1.6 mil (15-40 µ)		
Tensile Strength			ISO 527-3
MD: 50 µm, blown film	20.0	MPa	ISO 527-3

TD: 50 µm, blown film	17.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	350	%	ISO 527-3
TD: Broken, 50 µm, blown film	600	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	90	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°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	> 80		ASTM D2457
60, 50.0 µm, blown film	> 115		ASTM D2457
Haze (50.0 µm, Blown Film)	< 7.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Failure Energy (50.0 µm)	35.0	J/cm	DIN 53373
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 170°C and a blow-up ratio of 1:2.5.			
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	

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