

LyondellBasell Lupolen® 3020 K LDPE, Film Grade

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

FilmData was collected by ISO methods and originally provided by BASF. The Lupolen® product line is now produced by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Lupolen-3020-K-LDPE-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.928 g/cc	0.0335 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.010 %	0.010 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	13.0 MPa	1890 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	13.5 %	13.5 %	
Tensile Modulus	0.300 GPa	43.5 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	180 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	100 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	114 $\text{Å}^\circ\text{C}$	237 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	45.0 $\text{Å}^\circ\text{C}$	113 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	17 %	17 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.3	2.3	

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
	2.3	2.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00020	0.00020	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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