

## LyondellBasell Lupolen® 5236 HX HDPE, Impact Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Impact Grade

### Material Notes:

Medium flow, impact resistant, high stress-crack resistant grade for closures for bottles that contain carbonated liquids. This product contains a slip agent. Data 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-5236-HX-HDPE-Impact-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Lupolen-5236-HX-HDPE-Impact-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in <sup>3</sup>	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Linear Mold Shrinkage, Flow	0.023 cm/cm	0.023 in/in	
Linear Mold Shrinkage, Transverse	0.024 cm/cm	0.024 in/in	
Melt Flow	3.3 g/10 min @Load 2.16 kg, Temperature 190 °C	3.3 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	9.0 %	9.0 %	
Tensile Modulus	1.10 GPa	160 ksi	
Tensile Impact Strength	90.0 kJ/m <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	165 µm/m-°C @Temperature 20.0 °C	91.7 µin/in-°F @Temperature 68.0 °F	
Melting Point	133 °C	271 °F	
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	
Deflection Temperature at 1.8 MPa	44.0 °C	111 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 Å°C	167 Å°F	
Flammability, UL94	HB @Thickness 0.400 mm	HB @Thickness 0.0157 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	2.4 @Frequency 100 Hz	2.4 @Frequency 100 Hz	
	2.4 @Frequency 1e+6 Hz	2.4 @Frequency 1e+6 Hz	
Dielectric Strength	150 kV/mm	3810 kV/in	
Dissipation Factor	0.00020 @Frequency 100 Hz	0.00020 @Frequency 100 Hz	
	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China