

## FKuR Kunststoff Terralene® LL 1101 Biobased Polyethylene

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

With the brand name Terralene® FKuR offers biobased polyethylene compounds made using Braskem's Green PE. When compared to conventional polyethylene (PE), the main difference is that the ethanol used for Green PE is not produced using crude oil, but instead is derived from sugarcane. Therefore each ton of Green PE captures up to 2.5 tons of CO2 thus helping to reduce harmful greenhouse gas emissions. As Terralene® offers the same characteristics and processability as fossil polyethylene it is a drop-in replacement and can be run on conventional PE production equipment. This allows Terralene® to help meet sustainability goals affordably. Furthermore, Terralene® is 100% recyclable using standard Polyethylene recycling streams. With its unique technology FKuR increases the range of applications for Green PE particularly for injection moulded components and film. Terralene® - for Flexible Applications and Extrusion Coating Green LLDPE and HDPE can have a limited range of applications. Terralene® can provide a perfect answer as these grades produce high quality films with a well-designed and full additive package. Terralene® is FKuR's solution to complete their current Green PE portfolio achieving LDPE like properties and behaviour. Due to the excellent homogeneity and blend of polymers, Terralene® provides simple gel-free production. For extrusion coating, Terralene® has a low neck-in with a good draw down ratio. Terralene® - for Injection Molding With good flow properties and melt strength, Terralene® provides the desirable characteristics required for the moulding of complex structures. The performance of Green PE is often limited to pure HDPE applications, however Terralene® extends the range of applications and is FKuR's solution for optimizing the processing and product performance while still catering to individual requirements. TERRALENE® LL 1101 is a ready-to-use blend for blown film extrusion and lamination. As it offers mechanical properties which are comparable to a conventional LDPE it reduces the difference between Green HDPE and LLDPE. TERRALENE® LL 1101 has a high content of natural resources and films made from this grade are distinguished by having a good clarity. Information Provided by FKuR Kunststoff GmbH

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_FKuR-Kunststoff-Terralene-LL-1101-Biobased-Polyethylene.php](http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Terralene-LL-1101-Biobased-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in <sup>3</sup>	ISO 1183
Melt Flow	0.70 - 0.85 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 - 0.85 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	11.0 MPa	1600 psi	ISO 527
Elongation at Break	>= 300 %	>= 300 %	ISO 527
Elongation at Yield	23 %	23 %	ISO 527
Tensile Modulus	0.330 GPa	47.9 ksi	ISO 527
	NB	NB	

Charpy Impact Unnotched Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	No break; ISO 179-1/1eU Comments
Charpy Impact, Notched	6.70 J/cm <sup>2</sup> @Temperature 23.0 °C	31.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	130 - 145 °C	266 - 293 °F	ISO 3146-C

Descriptive Properties	Value	Comments
Melt Volume Flow (cm <sup>3</sup> /10 min)	0.9-1.1	ISO 1133; 190°C, 2.16kg

## 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