

FKuR Kunststoff Terralene® WF 5525 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® WF 5525 is a natural fiber reinforced compound based on Braskem's Green PE. It contains a medium amount of wood fibers and functional additives but retains a high content of renewable resources. As TERRALENE® WF 5525 has excellent flow characteristics, it is especially suitable for the production of injection moulded rigid parts and those with long flow paths. The unique natural optical appearance of items produced with this product is very distinguishable. Information Provided by FkuR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Terralene-WF-5525-Biobased-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0378 lb/in ³	ISO 1183
Melt Flow	6.0 - 7.5 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 - 7.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Stress	29.8 MPa	4320 psi	At break; ISO 527
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
Elongation at Break	6.8 %	6.8 %	ISO 527
Elongation at Yield	6.5 %	6.5 %	ISO 527
Tensile Modulus	2.02 GPa	293 ksi	ISO 527

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	1.720 J/cm ²	1.275 ft-lb/in ²	ISO 179-1/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.320 J/cm ²	1.52 ft-lb/in ²	ISO 179-1/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Thermal Properties	Metric	English	Comments
Melting Point	130 - 145 Â°C	266 - 293 Â°F	ISO 3146-C

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