

Laurel BioComposite Bio-Resâ,ç 20% Composite in HDPE

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Bio-Resâ,ç can be blended with various resins in certain applications. It can be included at rates up to 40% in manufactured plastic products while maintaining or enhancing the desired characteristics of the end product. Bio-Res is created from a bio-based feedstock, initially distillers grains, a by-product of the ethanol process. The feedstock undergoes a proprietary process which creates a product for inclusion in thermoplastics. Bio-Res can be delivered as a fine powder or in pellet form. Data is for a 20% filler loading on injection molded HDPE samples.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Laurel-BioComposite-Bio-Res-20-Composite-in-HDPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	
Water Absorption	0.27 %	0.27 %	Immersion
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.03 cm/cm	0.03 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	15.9 MPa	2300 psi	ASTM D638
Tensile Modulus	1.17 GPa	170 ksi	ASTM D638
Flexural Strength	29.6 MPa	4300 psi	ASTM D790
Flexural Modulus	1.14 GPa	165 ksi	ASTM D790
Izod Impact, Notched	0.37 J/cm	0.70 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Die Temperature	193 - 204 Â°C	380 - 400 Â°F	Extrusion
Melt Temperature	177 - 191 Â°C	350 - 375 Â°F	Extrusion
	177 - 193 Â°C	350 - 380 Â°F	
Mold Temperature	32 - 65.6 Â°C	90 - 150 Â°F	Injection
Drying Temperature	79.4 Â°C	175 Â°F	Extrusion or Injection
	@Time 7200 sec	@Time 2.0 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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