

BiologiQ EcoStarch GS270 Thermoplastic Starch

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic

Material Notes:

BiologiQ GS270 is a plasticized thermoplastic starch (TPS) called EcoStarch Resin (ESR). It is suitable for blending with petrochemical or bioresins where biobased content is desired. It Can be used as a stand alone polymer for certain low -temperature injection molding applications. It is highly compostable and biodegradable. It forms a crystalline structure product that has good strength and low plasticity. When GS270 absorbs moisture it exhibits plastic behavior and becomes flexible. When removed from humidity the material dries out and becomes crystalline again. Used for final products requiring plasticity such as plastic dinnerware, packaging. Blend with PE to make think film products like shopping bags. Information provided by BiologiQ

Order this product through the following link:

http://www.lookpolymers.com/polymer_BiologiQ-EcoStarch-GS270-Thermoplastic-Starch.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Melt Flow	1.98 g/10 min @Load 5.00 kg, Temperature 200 °C	1.98 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM D638
Tensile Strength, Yield	>= 30.0 MPa	>= 4350 psi	ASTM D638
Elongation at Break	<= 10 %	<= 10 %	ASTM D638
Tensile Modulus	1.50 GPa	218 ksi	ASTM D638
Dart Drop Test	3500 g	7.72 lb	ASTM D5628

Thermal Properties	Metric	English	Comments
Melting Point	166 - 180 °C	331 - 356 °F	ASTM D3418
Glass Transition Temp, Tg	81.0 - 100 °C	178 - 212 °F	ASTM D3418

Processing Properties	Metric	English	Comments
Drying Temperature	60.0 °C	140 °F	
Dry Time	1.00 - 4.00 hour	1.00 - 4.00 hour	
Moisture Content	<= 1.0 %	<= 1.0 %	ASTM D6980

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