

## Green Dot Terratek® SC 50 Polypropylene - Wheat Starch Biocomposite

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Terratek® SC 50 is a proprietary blend of wheat starch and polypropylene for injection molding applications. SC 50 contains 50% wheat starch by weight, however, a range of properties can be achieved by altering the starch to plastic ratio and by the inclusion or admission of other additives. Formulations containing anywhere from 30% to 65% starch are available upon request. Information provided by Green Dot Holdings.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Green-Dot-Terratek-SC-50-Polypropylene-Wheat-Starch-Biocomposite.php](http://www.lookpolymers.com/polymer_Green-Dot-Terratek-SC-50-Polypropylene-Wheat-Starch-Biocomposite.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.641 - 0.721 g/cc	0.0231 - 0.0260 lb/in <sup>3</sup>	
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	
Moisture Absorption	<= 1.00 %	<= 1.00 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.1 MPa	4800 psi	
Tensile Modulus	3.10 GPa	450 ksi	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 - 182 Â°C	350 - 360 Â°F	
Middle Barrel Temperature	177 - 182 Â°C	350 - 360 Â°F	
Front Barrel Temperature	182 - 191 Â°C	360 - 375 Â°F	
Nozzle Temperature	182 - 191 Â°C	360 - 375 Â°F	
Melt Temperature	<= 204 Â°C	<= 400 Â°F	
Mold Temperature	15.6 - 76.7 Â°C	60.0 - 170 Â°F	
Drying Temperature	104 Â°C	220 Â°F	desiccant dryer
Moisture Content	<= 0.50 %	<= 0.50 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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