

### Product Description

30% hemp fiber dispersed in a Polypropylene matrix engineered for extrusion and injection molding applications.

### General Information

Resin	Polypropylene
Filler	Hemp Fiber
Fill level	30%
Uses	Extrusion, Injection Molding
Form	Pellets

### Physical Properties

	Typical Value Range	Units	Method
Specific Gravity	1.00	N/A	ASTM D792
Moisture Content	< 1	%	ASTM D6980

### Storage, Shelf Life, Processing Limitations & Packaging

Keep in a tightly closed container and out of direct sunlight. Dry material at 80°C for 3-4 hours prior to use if needed. Reseal bag after use. Product is shelf stable for at least 1 year and must be processed < 400°F.

### Compound Performance

Testing is performed on ASTM standard injection molded tensile and flexural bars made from hemp fiber dispersed into Polypropylene via twin screw extrusion.

Active Additive Weight %		30% Hemp	30% Talc	30% Glass Fiber	Virgin PP	Units	Method
Tensile	Modulus	598188	391601	915188	213206	psi	ASTM D638
	Strength	5270	3742	12009	10820	psi	
	Elongation @ Break	1.9	22.5	4.0	265.0	%	
Flexural	Modulus	497220	378549	786105	200152	psi	ASTM D790
	Strength	8683	6599	17260	5279	psi	
Impact (IZOD)	Unnotched	2.69	6.39	9.42	7.57	ft-lbf/in	ASTM D256
	Notched	0.41	0.98	2.14	1.51	ft-lbf/in	ASTM D4812
Specific Gravity		1.00	1.13	1.14	0.91	N/A	ASTM D792
Moisture Absorption @ 96 hours		2.09 (0.07)	N/A (N/A)	N/A (N/A)	N/A (N/A)	% Uptake (SD)	ASTM D5229
Carbon Impact		+7428	+8460	+9420	+12000	lb/t	

### Recommended Molder Conditions

Barrel Temperature 370 - 390 °F

Mold Temperature 115 - 135 °F