

## West Fraser 30% Cellulose Filled Polypropylene Composite

### PRODUCT DESCRIPTION

A 30% cellulose fiber in a polypropylene matrix suitable for injection molding and extrusion applications.

### GENERAL INFORMATION

Resin	Polypropylene homopolymer
Filler	Cellulose fiber
Fill level	30%
Uses	Injection Molding and Extrusion
Form	Pellets

PHYSICAL PROPERTIES	Typical Value	Units	Method
Specific Gravity	1.01		ASTM D792

OTHER PROPERTIES	Value	Units	Method
24-hour Moisture Uptake	0.40%	%	ASTM D570

MECHANICAL PROPERTIES	Typical Value	Units	Method
Tensile			ASTM D638
Modulus	535,000	psi	
Strength	7,400	psi	
Elongation @ Yield	5.0	%	
Flexural			ASTM D790
Modulus	465,000	psi	
Strength	11,700	psi	
Izod Impact			ASTM D256
Notched	0.5	ft-lbs/in	
Un-notched	6	ft-lbs/in	
Heat Deflection Temperature			ASTM D648
@ 66 psi	147	°C	
@ 264 psi	95	°C	

### RECOMMENDED TARGET PROCESS CONDITIONS

Pre-Drying (varies, target <0.5% moisture)	2 hrs @ 100 °C	2 hrs @ 212 °F
Barrel temperatures	160-180 °C	320-356 °F
Die/Nozzle temperature	175-190 °C	347-374 °F

### PROCESSING NOTES

Do not process at temperatures above 220° C; preferred processing temperatures are 200° C or below.

### STORAGE AND PACKAGING

No special storage or packaging is required.

#### Important Notice Regarding this Information

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