

West Fraser 40% Cellulose Filled Polypropylene Composite

PRODUCT DESCRIPTION

A 40% cellulose fiber in a polypropylene matrix suitable for injection molding and extrusion applications.

GENERAL INFORMATION

Resin	Polypropylene homopolymer
Filler	Cellulose fiber
Fill level	40%
Uses	Injection Molding and Extrusion
Form	Pellets

PHYSICAL PROPERTIES	Typical Value	Units	Method
Specific Gravity	1.05		ASTM D792

OTHER PROPERTIES	Value	Units	Method
24-hour Moisture Uptake	0.70%	%	ASTM D570

MECHANICAL PROPERTIES	Typical Value	Units	Method
Tensile			ASTM D638
Modulus	615,000	psi	
Strength	9,000	psi	
Elongation @ Yield	2.3	%	
Flexural			ASTM D790
Modulus	550,000	psi	
Strength	12,500	psi	
Izod Impact			ASTM D256
Notched	0.4	ft-lbs/in	
Un-notched	3.5	ft-lbs/in	
Heat Deflection Temperature			ASTM D648
@ 66 psi	n/a	°C	
@ 264 psi	n/a	°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

The statements, technical information and recommendations contained herein are believed to be accurate. However, West Fraser makes no guarantee or warranty and does not assume any liability with respect to the accuracy or completeness of such information. Suitability of the product for a specific final end use is the sole responsibility of the user. The data contained herein are typical properties only and are not to be used as a specification.