

90% Highly Filled Wood Flour Polymer Masterbatch
5001
PRODUCT DESCRIPTION

90% active wood flour masterbatch in a polyolefin matrix suitable for let down in compounding, molding or extrusion applications. Alternative description: PR00594.

GENERAL INFORMATION

Resin	Polyolefin
Filler	Wood Flour
Fill level	90%
Uses	Letdowns
Form	California Pellets

PHYSICAL PROPERTIES	Typical Value Range	Units	Method
Specific Gravity	1.33 - 1.39	N/A	ASTM D792
Moisture Content	< 3.0	%	ASTM D6980
Pellet Count	32.1 - 33.1	g/100 pellets	

STORAGE, SHELF LIFE, PROCESSING LIMITATIONS, AND PACKAGING

Keep in the original container or an approved alternative made from a compatible material with desiccant, kept tightly closed when not in use and out of direct sunlight. Dry material at 85 °C for 3-4 hours prior to compounding if needed. Product is shelf stable for at least 1 year and must be processed under 220 °C. Compatible with PE, PP, PLA, and PVC. Product is available in 1000 pound gaylords.

MASTERBATCH PERFORMANCE

Testing is performed on ASTM standard injection molded tensile and flexural bars made from the appropriate letdown ratios into Polypropylene (PP) via twin screw extrusion.

Active Natural Fiber Weight %	20%	30%	40%	Units	Method
<u>Tensile</u>					ASTM D638
Modulus	376950	441492	516817	psi	
Strength	4267	4060	3861	psi	
Elongation @ Break	3.8	2.8	2.0	%	
<u>Flexural</u>					ASTM D790
Modulus	321216	396559	472772	psi	
Strength	7774	7737	7383	psi	
<u>Impact (IZOD)</u>					ASTM D256 & ASTM D4812
Unnotched	2.9	2.7	2.0	ft-lbf/in	
Notched	0.42	0.51	0.51	ft-lbf/in	
<u>Specific Gravity</u>	0.98	1.01	1.05	N/A	ASTM D792
<u>Moisture Absorption @ 96 hours</u>	0.69 (0.09)	0.94 (0.04)	1.44 (0.07)	% Uptake (SD)	ASTM D5229

Important Notice Regarding this Information

The statements, technical information and recommendations contained herein are believed to be accurate. However, Interfacial Consultants 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.

*SD refers to Standard Deviation