



# LINXIDAN<sup>®</sup> LX4433

Maleated HDPE Coupling Agent

## DESCRIPTION

LINXIDAN<sup>®</sup> LX4433 is a Maleated HDPE Coupling Agent designed specifically to chemically bind natural fibers to HDPE in Wood-Plastic Composites. Coupling fibers to the HDPE matrix, in a 50% wood-filled system, reduces moisture uptake while increasing flexural modulus by 20% and overall flexural strength by 90%.

PROPERTY	Units	LINXIDAN <sup>®</sup> LX4433 in 50% Wood Filled PE		
		0%	1%	2%
Flexural Modulus	psi	424,000	492,000	511,000
Flexural Strength	psi	5,070	8,620	9,690
Unnotched Izod Impact Strength	ft-lbs/in	1.19	3.95	4.20
Moisture Uptake, 200 hr submersion	%	2.85	1.80	1.53

Physical Property	Average Value	Test Method
Melt Flow	0.3 g/10 min	ASTM D1238
Density	0.95 g/cc	ASTM D1505
Peak Melting Temperature	130°C	Thermal Analysis: DSC
Maleic Anhydride Level	High	Wt%

Referenced Maleic Anhydride levels should be considered as: Low: <0.25% / Medium: 0.25%-0.75% / High: 0.75%-1.25% / Very High: >1.25%.

The technical information contained herein is, to the best of our knowledge, believed to be accurate. However, SACO AEI Polymers makes no guarantee or warranty, and does not assume any liability, with respect to the accuracy or completeness of such information. Suitability of material 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 specifications.

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