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( / / : // : ) \*

(PBNCO)

(MAPP)

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Kokta  
Maldas  
Takase  
Shiraishi  
Felix

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Jog  
Nabi

Populus )

CTMP

(termuloides Michx

(MAPP)

MJ/Kg

DOW (Dow C 715

HP polypropylene Resin)

min

°c

/gr

CTMP

(HDPE)

	ISO 1133	
/	ISO 1183	( )
	ISO 2039-1	( )
	ISO 527 50mm/min	( )
	ISO 527 50mm/min	( )
	ISO 178	( )
	ISO 180 notched	( )

W (DOW C 715 HP polypropylene Resin)

Raj

...

**(PBNCO)**

Krasol

( )

Kaucuk LBD 3000,TDI,

( )

/ , ,

Eastmann -

(MAPP)

Epolene PMG-3003

Q34.19 c005	/	/	/	n 7 rilollg	NCO%
Q34.19 c005	/	/	/	Wt%	NCO%
Q34.19 A31S	/		/	Wt%	TDI Free %
Q34.21 B001				Inpa-s Cry 25 c	

(ASTM D 638 -V)

(Brabender)

<b>(PBNCO)</b>	<b>(MAPP)</b>	
B	A	
B1=% B2=% / B3=%	A1 =% A2 =%	

4201

CTMP

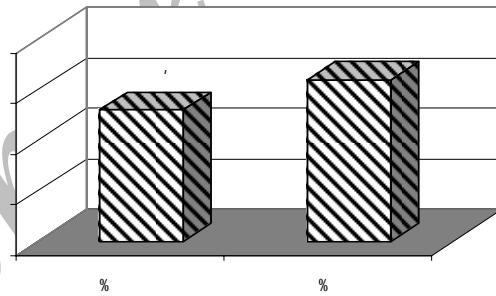
ASTM D 638 V

TMI-

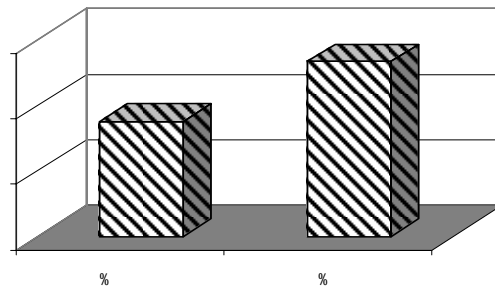
43-01 USA

(MAPP)

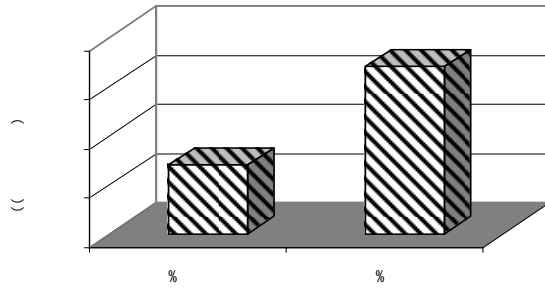
(DMRT)



(MAPP)



(MAPP)



(PBNCO) / (MAPP)

(PBNCO)

(PBNCO)

(PBNCO)

(PBNCO)

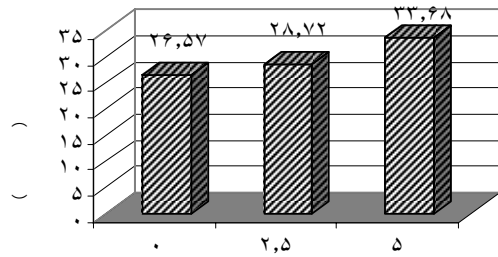
(MAPP)

(MAPP)

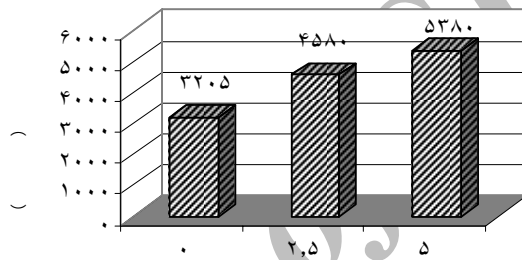
(PBNCO)

(PBNCO)

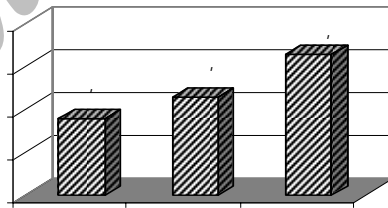
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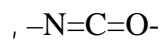


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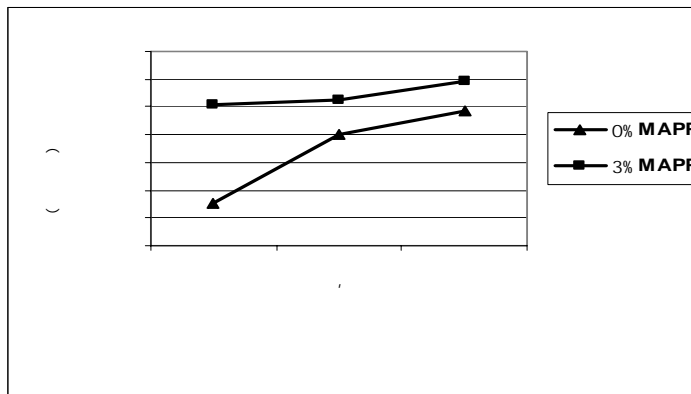
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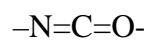
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(PBNCO)



(MAPP)



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## The Use of Polybutadiene Isocyanate to Improve of Polypropylene-Wood Fiber Composites

A. Nourbakhsh<sup>\*1</sup>, K. Doosthoseini<sup>2</sup>, A. Jahan-Latibari<sup>3</sup> and A. Hossienzadeh<sup>4</sup>

<sup>1</sup> Assistant Prof, Research Insititute of Forests and Rangelands, I.R. Iran

<sup>2</sup> Prof.r, Faculty of Natural Resources, University of Tehran, I.R. Iran

<sup>3</sup> Prof., Faculty of Azad, University of Karaj, I. R. Iran

<sup>4</sup> Professor in Research, Research Insititute of Forests and Rangelands, I.R. Iran

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### Abstract

This study examines the effect of indicates the effect of adding maleic anhydride polypropylene (MAPP) and polybutadiene isocyanate (PBNCO) on improving mechanical and practical properties of modified wood fiber/polypropylene composites. MAPP and PBNCO were studied with three and two parts applied, respectively. Results show that using 30 % fiber content with 3% MAPP and, 5% PBNCO improves adhesion between fibers and consequently mechanical properties of the wood fiber/polymer composites and reinforces the polymer matrix as well.

**Keywords:** CTMP fiber, Polypropylene, Polybutadiene isocyanate, Maleic anhydride polypropylene composites, Mechanical properties

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\* Corresponding author: Tel: 0261-6670810 , Fax: 0261-2249311 E-mail nourbakhsh\_amir@yahoo.com