



**DOCUMENTO COM CONFIDENCIALIDADE ATÉ**  
*Prazo indeterminado*

University of Caxias do Sul

Postgraduate Program in Materials Science and Engineering

**EFFECTS OF CHAIN EXTENDERS IN SOYBEAN  
POLYURETHANES: SYNTHESIS, STRUCTURE AND  
HYDROLYTIC DEGRADATION**

Diana Favero

Doctoral thesis

Caxias do Sul, april 2019.

University of Caxias do Sul

Postgraduate Program in Materials Science and Engineering

**EFFECTS OF CHAIN EXTENDERS IN SOYBEAN  
POLYURETHANES: SYNTHESIS, STRUCTURE AND  
HYDROLYTIC DEGRADATION**

Diana Favero

Doctoral Thesis fulfilled with the adviser Professor Dr. Otávio Bianchi and co-adviser Professor Dr. Carlos A. Figueroa, presented to the Postgraduate Program in Materials Science and Engineering of the University of Caxias do Sul in partial requirement for obtaining of the Doctor degree in Materials Science and Engineering.

Caxias do Sul, Rio Grande do Sul, Brasil 2019.

Dados Internacionais de Catalogação na Publicação (CIP)  
Universidade de Caxias do Sul  
Sistema de Bibliotecas UCS - Processamento Técnico

F273e Favero, Diana

Effects of chain extenders in soybean polyurethanes : synthesis,  
structure and hydrolytic degradation / Diana Favero. – 2019.  
99 f. : il. ; 30 cm

Thesis (Doctorate Degree) - University of Caxias do Sul, Postgraduate  
Program in Materials Science and Engineering, 2019.

Adviser: Otávio Bianchi.

Coadviser: Carlos A. Figueroa.

1. Polyurethanes. 2. Soy oil. 3. Polymers. I. Bianchi, Otávio, adviser. II.  
Figueroa, Carlos A., coadviser. III. Título.

CDU 2. ed.: 678.7

Catalogação na fonte elaborada pela(o) bibliotecária(o)  
Paula Fernanda Fedatto Leal - CRB 10/2291

“Effects of chain extenders in soybean polyurethanes: synthesis,  
structure and hydrolytic degradation”.

**Diana Favero**

Doctoral Thesis fulfilled with the adviser Professor Dr. Otávio Bianchi and co-adviser Professor Dr. Carlos A. Figueroa, presented to the Postgraduate Program in Materials Science and Engineering of the University of Caxias do Sul in partial requirement for obtaining of the Doctor degree in Materials Science and Engineering.

Members of the Examination Commission:

Doctor professor Janaina da Silva Crespo  
University of Caxias do Sul (UCS).

Doctor professor Vinícius Bassanesi Veronese  
Federal Institute of Rio Grande do Sul (IFRS) – Campus Caxias do Sul.

Doctor professor Clarissa Piccinin Frizzo  
Federal University of Santa Maria (UFSM).

Doctor professor Clara Gomez  
Instituto de Ciencia de los Materiales, Universidad de Valencia, 46980 Paterna, Valencia (Spain).

Doctor professor Maria Jesus Sanchis  
Department of Applied Thermodynamics, Institute of Electric Technology, Universitat Politècnica de València, Valencia, Spain.

Caxias do Sul, may 20, 2019.