

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: gailmac@vt.edu)

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Chen Qian

Description of item under review for fair use: Figure 2.4: Schematic description of the morphologies above and below the melting points for both conventional flexible polymers and TLCPs: (a) nematic phase of a TLCP above the melting point, (b) crystalline structures of a TLCP below its melting point, the thicker regions highlight the crystal lattices, (c) entangled flexible polymer chains above melting point, and (d) the lamellar crystalline structure of flexible polymers. (Reprinted from ref [13])

Report generated on: 04-29-2016 at : 15:55:59

Based on the information you provided:

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Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

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Description of item under review for fair use: Figure 2.5: Steady viscosity versus shear rate for the Vectra A900. ○ represented data from rotational rheometer, ■ and + were obtained from capillary rheometer. At low and high shear rates (region I and III), material exhibited shear thinning. While at intermediate shear rate region (region II), the viscosity showed a Newtonian plateau. (Reprinted from ref [35])

Report generated on: 04-29-2016 at : 15:57:45

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Name: Chen Qian

Description of item under review for fair use: Figure 2.6: Proposed model of the hierarchical structure in injection molded TCLP plaques. (Reprinted from ref [74])

Report generated on: 04-29-2016 at : 15:58:41

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Name: Chen Qian

Description of item under review for fair use: Figure 2.9: Extended hierarchical structural model for LCP fibers. (Reprinted from ref [96])

Report generated on: 04-29-2016 at : 15:59:39

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Name: Chen Qian

Description of item under review for fair use: Figure 2.10: Schematic illustration of the continuous extrusion blow molding. (Reprinted from ref [97])

Report generated on: 04-29-2016 at : 16:00:14

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Name: Chen Qian

Description of item under review for fair use: Figure 2.12: Stretch blow molding of a preform. (Reprinted from ref [99])

Report generated on: 04-29-2016 at : 16:00:41

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Name: Chen Qian

Description of item under review for fair use: Figure 2.14: Schematic representation of a counter-rotating die. (Reprinted from ref [107])

Report generated on: 04-29-2016 at : 16:01:21

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Description of item under review for fair use: Figure 2.15: Fibrillation of TLCPs in the thermoplastic matrix. Four regions can be identified to describe this process: (A) tension and fiber forming; (B) flow narrowing; (C) relaxation zone; (D) shear field. (Reprinted from ref [132])

Report generated on: 04-29-2016 at : 16:01:56

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Name: Chen Qian

Description of item under review for fair use: Figure 2.17: Schematic of the co-extrusion mixing system developed by Baird and Sukhadia, reprinted from ref [141].

Report generated on: 04-29-2016 at : 16:02:24

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