

# Desmoderm® TXC ENB-01

Polyurethane (Polyester based)

Covestro - PUR

## Message:

Desmoderm TXC ENB-01 is a one-component polyester urethane based on an aromatic diisocyanate.

| General Information             |                                 |         |                     |
|---------------------------------|---------------------------------|---------|---------------------|
| Features                        | Flexibility at low temperatures |         |                     |
|                                 | Good adhesion                   |         |                     |
|                                 | Soft                            |         |                     |
| Uses                            | Leather case                    |         |                     |
|                                 | Coating application             |         |                     |
|                                 | Footwear                        |         |                     |
| Agency Ratings                  | EU 1999/45/EC                   |         |                     |
|                                 | EU 67/548/EEC                   |         |                     |
| Forms                           | Particles                       |         |                     |
| Physical                        | Nominal Value                   | Unit    | Test Method         |
| Viscosity (23°C) <sup>1</sup>   | 5 - 15                          | mPa · s | DIN EN ISO 3219/A.3 |
| Light-Fastness                  | 2.00                            |         | DIN EN ISO 105-B02  |
| Softening Range                 | 145 - 160                       | °C      |                     |
| Volume Swelling <sup>2</sup>    |                                 |         |                     |
| Acetone : 23°C                  | 110                             | %       |                     |
| Ethanol : 23°C                  | 20                              | %       |                     |
| Ethyl Acetate : 23°C            | 130                             | %       |                     |
| Methyl Ethyl Ketone : 23°C      | 190                             | %       |                     |
| Toluene : 23°C                  | 100                             | %       |                     |
| Films                           | Nominal Value                   | Unit    | Test Method         |
| Film Thickness - Tested         | 100                             | µm      |                     |
| Tensile Modulus - 100% (100 µm) | 5.00                            | MPa     | DIN 53504           |
| Tensile Strength                |                                 |         | DIN 53504           |
| 100 µm <sup>3</sup>             | 35.0                            | MPa     | DIN 53504           |
| 100 µm <sup>4</sup>             | 10.0                            | MPa     | DIN 53504           |
| 100 µm                          | 45.0                            | MPa     | DIN 53504           |
| 100 µm <sup>5</sup>             | 40.0                            | MPa     | DIN 53504           |
| Tensile Elongation              |                                 |         |                     |
| Break, 100 µm <sup>6</sup>      | 550                             | %       | DIN 53504           |
| Break, 100 µm <sup>7</sup>      | 100                             | %       | DIN 53504           |

| Additional Information                                                                                   | Nominal Value                                                | Unit | Test Method |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------|-------------|
| Data taken from transparent films of 25% solids solution in dimethyl formamide/methyl ethyl ketone (3:2) |                                                              |      |             |
| NOTE                                                                                                     |                                                              |      |             |
| 1.                                                                                                       | 25% solution in dimethyl formamide/methyl ethyl ketone (3:2) |      |             |
| 2.                                                                                                       | 2 hr                                                         |      |             |
| 3.                                                                                                       | after 28 days hydrolysis                                     |      |             |
| 4.                                                                                                       | after 400 hr Xenotest                                        |      |             |
| 5.                                                                                                       | after 14 days hydrolysis                                     |      |             |
| 6.                                                                                                       | after 28 days hydrolysis                                     |      |             |
| 7.                                                                                                       | after 400 hr Xenotest                                        |      |             |

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
 Phone: +86 13424755533  
 Email: sales@su-jiao.com  
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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