



## POLY- 4035 / ISO-2019

### HANDLING: Children Shoe PU system

|                                                  | MATERIAL A   | MATERIAL B         |             |
|--------------------------------------------------|--------------|--------------------|-------------|
|                                                  | POLY-4035    | ISO-2019           |             |
| <i>Parameter</i>                                 | <i>Value</i> | <i>Value</i>       | <i>Unit</i> |
| Apperance at room temperature                    | Yellow Waxy  | Yellow transparent | -           |
| Melting point                                    | 10°C         | 0°C                | °C          |
| Solid material melting time                      | 0-1          | 0-1                | hours       |
| Viscosity at 35 ° C                              | 1500         | 400                | mPa·s       |
| Density at working temperature                   | 1.1          | 1.05               | g/cm³       |
| Mixing ratio                                     | 100          | 75-80              | V/m         |
| Working temperature                              | 45           | 40                 | °C          |
| Moulds temperature                               | 45-55        |                    | °C          |
| Demoulding time                                  | 180-240      |                    | second      |
| Reaction performance<br>(Cream Time/Thread Time) | 7-9          |                    | second      |
| Free Density                                     | 0.2-0.24     |                    | g/cm³       |

### MECHANICAL PERFORMANCE OF THE FOAM

| <i>Parameter</i>                              | <i>Value</i> | <i>Unit</i> |
|-----------------------------------------------|--------------|-------------|
| Density(UNI 10902)                            | 0.38-0.4     | g/cm³       |
| Hardness (UNI EN ISO 868)                     | 30-40        | Shore A     |
| Elogation at break(UNI EN 12803)              | 300          | %           |
| Tensile strength at break (UNI 12803)         | 9            | MPa         |
| Tear Resistance(UNI EN 12771)                 | 30           | N/mm        |
| Abrasion resistance (UNI EN 12770)            | 150          | mg          |
| Flexural fatigue resistance(UNI EN ISO 17707) | 80000        | Flex time   |
| Test temperature:+23°C without original hole  |              |             |

\*It is based on test results from samples taken on 10mm plates using Derkim Polyurethane test methods in our laboratories.

\*It is recommended that our products be stored at room temperature in places that are not exposed to direct sunlight and rain.