

## TPU Adhesive (Polyester-based)

### ■ Features

High Bonding Strength and Peel Strength, Excellent Extrusion Consistency, Excellent solubility performance.

### ■ Applications

Hot Melt Films and Tapes, Solvent-based Adhesives, Footwear Adhesives, Fire Hose Adhesives, etc

### ■ Properties

| Properties                     | Standard              | Unit              | Value            |
|--------------------------------|-----------------------|-------------------|------------------|
| <b>Physical Properties</b>     |                       |                   |                  |
| Density                        | ASTM D792             | g/cm <sup>3</sup> | <b>1.2</b>       |
| Hardness                       | ASTM D2240            | Shore A           | <b>95</b>        |
| Viscosity (15% in MEK 25°C)    | ISO 3219              | mpa.s             | <b>1500-2500</b> |
| Max.Toluene in solvents        |                       | %                 | <b>30-35</b>     |
| <b>Mechanical Properties</b>   |                       |                   |                  |
| Tensile Strength               | ASTM D412             | MPa               | <b>40</b>        |
| Tear Strength                  | ASTM D624             | KN/m              | <b>100</b>       |
| Bonding strength               | PVCvsPVC, After 10min | kg/2.5cm          | <b>5-10</b>      |
| <b>Thermal Properties</b>      |                       |                   |                  |
| Crystallization Rate           | _____                 | _____             | <b>Fast</b>      |
| Tack-free time                 | _____                 | min               | <b>10</b>        |
| Minimum Activation Temperature | _____                 | °C                | <b>55-65</b>     |

Note: The above values are shown as typical values and should not be used as specifications. Package: Normally 25kg/bag.

### ■ Processing Guide

#### Solution processing advice(Y: soluble S: swelling)

| Solvent          | Y or S |
|------------------|--------|
| DMF              | Y      |
| MEK              | Y      |
| Acetone          | Y      |
| Trichloromethane | Y      |
| Ethyl acetate    | Y      |
| Toluene          | Y      |

#### Processing Guide for Extrusion

| Item                  | Parameter |
|-----------------------|-----------|
| Die(°C)               | 195       |
| Adapter(°C)           | 205       |
| Metering Zone (°C)    | 195       |
| Compression Zone (°C) | 170       |
| Feeding Zone (°C)     | 100       |

### ■ HSE Information

Please take MSDS for reference

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