

# Utomer UT1CP90A

Thermoplastic Polyurethane Elastomer (Polyester)

Shanghai Utomer Material Science Co., Ltd.

Message:

TYPE: Utomer UT1CP90A TPU is a 90A Polyether-type thermoplastic polyurethane (TPU) compound

Features: Excellent clarity and UV stable with good melt strength.

Uses: Injection for 3 c electronic products or shoe part.

| General Information          |                                    |                   |             |
|------------------------------|------------------------------------|-------------------|-------------|
| Features                     | Good Melt Strength                 |                   |             |
|                              | Good UV Resistance                 |                   |             |
|                              | High Clarity                       |                   |             |
| Uses                         | Electrical/Electronic Applications |                   |             |
|                              | Footwear                           |                   |             |
| Processing Method            | Injection Molding                  |                   |             |
| Physical                     | Nominal Value                      | Unit              | Test Method |
| Specific Gravity             | 1.20                               | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                     | Nominal Value                      | Unit              | Test Method |
| Durometer Hardness (Shore A) | 90                                 |                   | ASTM D2240  |
| Mechanical                   | Nominal Value                      | Unit              | Test Method |
| Abrasion Loss                | < 35.0                             | mm <sup>3</sup>   | DIN 53516   |
| Elastomers                   | Nominal Value                      | Unit              | Test Method |
| Tensile Stress               |                                    |                   | ASTM D412   |
| 100% Strain                  | > 9.00                             | MPa               |             |
| 300% Strain                  | > 19.0                             | MPa               |             |
| Tensile Strength             | > 30.0                             | MPa               | ASTM D412   |
| Tensile Elongation (Break)   | > 500                              | %                 | ASTM D412   |
| Tear Strength                | > 0.110                            | kN/m              | ASTM D624   |
| Compression Set              |                                    |                   | ASTM D395B  |
| 23°C, 70 hr                  | < 28                               | %                 |             |
| 70°C, 24 hr                  | < 35                               | %                 |             |
| Thermal                      | Nominal Value                      | Unit              | Test Method |
| Glass Transition Temperature | -20.0                              | °C                | ASTM D3418  |
| Injection                    | Nominal Value                      | Unit              |             |
| Drying Temperature           | 100                                | °C                |             |
| Drying Time                  | 20                                 | hr                |             |
| Rear Temperature             | 180                                | °C                |             |
| Middle Temperature           | 185                                | °C                |             |
| Front Temperature            | 190                                | °C                |             |

|                    |      |    |
|--------------------|------|----|
| Nozzle Temperature | 195  | °C |
| Mold Temperature   | 50.0 | °C |

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