

# Generic TPU-Capro

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic TPU-Capro  
This information is provided for comparative purposes only.

| General Information                       |               |                   |                   |
|-------------------------------------------|---------------|-------------------|-------------------|
| Physical                                  | Nominal Value | Unit              | Test Method       |
| Specific Gravity                          |               |                   |                   |
| --                                        | 1.16 - 1.20   | g/cm <sup>3</sup> | ASTM D792         |
| 23°C                                      | 1.19          | g/cm <sup>3</sup> | ISO 1183          |
| Melt Mass-Flow Rate (MFR) (170°C/2.16 kg) | 23 - 84       | g/10 min          | ISO 1133          |
| Hardness                                  | Nominal Value | Unit              | Test Method       |
| Durometer Hardness                        |               |                   |                   |
| 23°C                                      | 45 - 98       |                   | ASTM D2240        |
| 23°C                                      | 44 - 98       |                   | ISO 868           |
| Elastomers                                | Nominal Value | Unit              | Test Method       |
| Tensile Stress                            |               |                   |                   |
| 100% strain, 23°C                         | 5.75 - 13.5   | MPa               | ASTM D412         |
| 100% strain, 23°C                         | 5.75 - 12.4   | MPa               | ISO 37            |
| 300% strain, 23°C                         | 7.34 - 31.6   | MPa               | ASTM D412         |
| 300% strain, 23°C                         | 4.00 - 31.0   | MPa               | ISO 37            |
| Tensile Strength (Yield, 23°C)            | 34.3 - 42.5   | MPa               | ASTM D412, ISO 37 |
| Tensile Elongation                        |               |                   |                   |
| Fracture, 23°C                            | 480 - 630     | %                 | ASTM D412         |
| Fracture, 23°C                            | 440 - 750     | %                 | ISO 37            |
| Tear Strength                             |               |                   |                   |
| 23°C                                      | 88.7 - 170    | kN/m              | ASTM D624         |
| 23°C                                      | 86 - 170      | kN/m              | ISO 34-1          |
| Compression Set                           | 13 - 43       | %                 | ASTM D395         |
| Thermal                                   | Nominal Value | Unit              | Test Method       |
| Glass Transition Temperature              | -47.0 - -23.0 | °C                | DSC               |
| Melting Temperature                       | 59.0 - 204    | °C                |                   |
| Injection                                 | Nominal Value | Unit              |                   |
| Drying Temperature                        | 105           | °C                |                   |
| Drying Time                               | 1.5 - 4.0     | hr                |                   |
| Rear Temperature                          | 190 - 210     | °C                |                   |
| Middle Temperature                        | 195 - 215     | °C                |                   |
| Front Temperature                         | 205 - 226     | °C                |                   |

|                        |             |    |
|------------------------|-------------|----|
| Nozzle Temperature     | 210 - 225   | °C |
| Mold Temperature       | 35.0 - 35.5 | °C |
| Injection instructions |             |    |

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