

# ColorRx® TPU-70D0RX

Thermoplastic Polyurethane Elastomer (PC Based)

LTL Color Compounders, Inc.

Message:

A biocompatible, Thermoplastic Polyurethane/Polycarbonate blend for healthcare applications.

| General Information |                                 |  |  |
|---------------------|---------------------------------|--|--|
| Features            | Biocompatible                   |  |  |
| Uses                | Medical/Healthcare Applications |  |  |
| Agency Ratings      | ISO 10993                       |  |  |
|                     | USP Class VI                    |  |  |

| Physical                 | Nominal Value | Unit              | Test Method |
|--------------------------|---------------|-------------------|-------------|
| Specific Gravity         | 1.21          | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow | 0.80          | %                 | ASTM D955   |

| Hardness                     | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Durometer Hardness (Shore D) | 70            |      | ASTM D2240  |

| Elastomers                 | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Tensile Strength (Break)   | 40.7          | MPa  | ASTM D412   |
| Tensile Elongation (Break) | 180           | %    | ASTM D412   |

| Impact                              | Nominal Value | Unit | Test Method |
|-------------------------------------|---------------|------|-------------|
| Notched Izod Impact (23°C, 3.18 mm) | 850           | J/m  | ASTM D256   |

| Thermal   | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 59.4          | °C   | ASTM D648   |

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