

Elasthane™ 75D

Thermoplastic Polyurethane Elastomer (Polyether)

DSM Biomedical Inc.

Message:

Elasthane™ 75D is a Thermoplastic Polyurethane Elastomer (Polyether) (TPU-Polyether) product. It can be processed by extrusion and is available in North America. Applications of Elasthane™ 75D include medical/healthcare and food contact applications.

Characteristics include:

- Biocompatible
- High Strength
- Hydrolytically Stable

| General Information | | | |
|--|---------------------------------|-------------------|-------------|
| Features | Aromatic | | |
| | Biocompatible | | |
| | High Strength | | |
| | Hydrolytically Stable | | |
| Uses | Medical/Healthcare Applications | | |
| Agency Ratings | DMF Unspecified Rating | | |
| | FDA Unspecified Rating | | |
| Appearance | Clear Amber | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.19 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (224°C/1.2 kg) | 37 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | | | ASTM D955 |
| -- ¹ | 1.6 | % | |
| -- ² | 0.50 to 0.80 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 75 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Ultimate) | 60.2 | MPa | ASTM D1708 |
| Tensile Elongation (Break) | 290 | % | ASTM D1708 |
| Flexural Modulus - 1% Secant | 1990 | MPa | ASTM D790 |
| Flexural Strength (5.0% Strain) | 75.2 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 61.0 | °C | ASTM D1525 |
| CLTE - Flow | 8.6E-5 | cm/cm/°C | ASTM E831 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | 15 | kV/mm | ASTM D149 |

| | | |
|-----------------------------|---------------|-----------|
| Dielectric Constant (60 Hz) | 3.70 | ASTM D150 |
| Extrusion | Nominal Value | Unit |
| Melt Temperature | 193 to 221 | °C |
| NOTE | | |
| 1. | 4 in disk | |
| 2. | Flame bar | |

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