

Elastollan® 690 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Transparent, Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance.
Typical applications
Decorative parts and damping elements for the sport shoe industry, Ski tips, tubes and Films.

| General Information | | | |
|---------------------------------|----------------------|-------------------|-------------|
| Features | Good Wear Resistance | | |
| | Resilient | | |
| Uses | Decorative Parts | | |
| | Film | | |
| | Footwear | | |
| | Sporting Goods | | |
| | Tubing | | |
| Appearance | Clear/Transparent | | |
| Processing Method | Blow Molding | | |
| | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.21 | g/cm ³ | ISO 1183/A |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A, 3 sec) | 90 | | ISO 7619 |
| Mechanical | Nominal Value | Unit | Test Method |
| Abrasion Loss | 40.0 | mm ³ | ISO 4649-A |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | DIN 53504 |
| 20% Strain | 4.00 | MPa | |
| 100% Strain | 7.00 | MPa | |
| Tensile Stress | | | DIN 53504 |
| Yield ¹ | 40.0 | MPa | |
| Yield | 50.0 | MPa | |
| Tensile Elongation | | | DIN 53504 |
| Break ² | 600 | % | |
| Break | 550 | % | |
| Tear Strength ³ | 85 | kN/m | ISO 34-1 |

| | | | |
|--------------------------------|---|------|-------------|
| Compression Set | | | ISO 815 |
| 23°C, 72 hr | 25 | % | |
| 70°C, 24 hr | 45 | % | |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179 |
| -30°C | No Break | | |
| 23°C | No Break | | |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 175 to 230 | °C | |
| Mold Temperature | 20.0 to 50.0 | °C | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 175 to 220 | °C | |
| NOTE | | | |
| 1. | after storage in water for 21 days at 80°C | | |
| 2. | after storage in water for 21 days at 80°C | | |
| 3. | Method Bb, Angle (Nicked) | | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

