

# Texalan® 6 Series 690A

Thermoplastic Polyurethane Elastomer (Ester/Ether)

Austin Novel Materials Co. Ltd.

## Message:

Texalan® 6 Series 690A is a Thermoplastic Polyurethane Elastomer (Ester/Ether) (TPU-Ester/Ether) material. It is available in Asia Pacific, Europe, or North America for blow molding, calendering, coextrusion, extrusion, film extrusion, or injection molding.

Important attributes of Texalan® 6 Series 690A are:

- Chemical Resistant
- High Strength
- Impact Resistant
- Low Temperature Resistant
- Wear Resistant

| General Information |                           |
|---------------------|---------------------------|
| Features            | Good Abrasion Resistance  |
|                     | High Elasticity           |
|                     | High Impact Resistance    |
|                     | High Tensile Strength     |
|                     | Low Temperature Resistant |
|                     | Oil Resistant             |

|                   |                   |
|-------------------|-------------------|
| Processing Method | Blow Molding      |
|                   | Calendering       |
|                   | Coextrusion       |
|                   | Extrusion         |
|                   | Film Extrusion    |
|                   | Injection Molding |

| Physical                   | Nominal Value | Unit              | Test Method |
|----------------------------|---------------|-------------------|-------------|
| Density                    | 1.19 to 1.23  | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                   | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A)   | 87 to 93      |                   | ISO 868     |
| Mechanical                 | Nominal Value | Unit              | Test Method |
| Abrasion Resistance        | < 55.0        | mm <sup>3</sup>   | ISO 4649    |
| Elastomers                 | Nominal Value | Unit              | Test Method |
| Tensile Stress             |               |                   | ISO 37      |
| 100% Strain                | > 8.00        | MPa               |             |
| 300% Strain                | > 16.0        | MPa               |             |
| Tensile Stress (Yield)     | > 42.0        | MPa               | ISO 37      |
| Tensile Elongation (Break) | > 550         | %                 | ISO 37      |
| Tear Strength              | > 70          | kN/m              | ISO 34-1    |
| Compression Set (70°C)     | < 40          | %                 | ISO 815     |

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