

# Adiprene® LF 700D

Polyurethane (Polyether, TDI)

Chemtura

## Message:

ADIPRENE LF 700D is a TDI-terminated polyether prepolymer with extremely low free TDI content. Curing with 4,4'-methylene-bis-(o-chloroaniline), MBCA, yields a high performance 70 Shore D polyurethane elastomer suitable for many high-performance applications.

Features of Adiprene LF 700D include:

- Low free TDI content
- Low viscosity
- Long pot life
- Excellent high temperature dynamic properties

| General Information          |               |                   |             |
|------------------------------|---------------|-------------------|-------------|
| Features                     | Low Viscosity |                   |             |
| Uses                         | Wheels        |                   |             |
| Processing Method            | Casting       |                   |             |
| Physical                     | Nominal Value | Unit              | Test Method |
| Specific Gravity             | 1.18          | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                     | Nominal Value | Unit              | Test Method |
| Durometer Hardness (Shore D) | 68 to 70      |                   | ASTM D2240  |
| Hardness - P & J             | 4.00          |                   |             |
| Mechanical                   | Nominal Value | Unit              | Test Method |
| Compressive Strength         |               |                   | ASTM D695   |
| 5% Strain                    | 11.4          | MPa               |             |
| 10% Strain                   | 17.9          | MPa               |             |
| 15% Strain                   | 23.4          | MPa               |             |
| 20% Strain                   | 29.0          | MPa               |             |
| 25% Strain                   | 35.9          | MPa               |             |
| Elastomers                   | Nominal Value | Unit              | Test Method |
| Tensile Stress (100% Strain) | 31.0          | MPa               | ASTM D412   |
| Tensile Strength             | 48.3          | MPa               | ASTM D412   |
| Tensile Elongation (Break)   | 250           | %                 | ASTM D412   |
| Tear Strength                |               |                   |             |
| -- 1                         | 140           | kN/m              | ASTM D624   |
| Split                        | 23            | kN/m              | ASTM D470   |
| Thermoset                    | Nominal Value | Unit              |             |
| Pot Life                     | 3.3           | min               |             |
| Demold Time                  | 15            | min               |             |
| Uncured Properties           | Nominal Value | Unit              |             |
| Curing Time (100°C)          | 16            | hr                |             |
| NOTE                         |               |                   |             |

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