

# Cellasto® MH24-40

Thermoplastic Polyurethane Elastomer

BASF Polyurethanes GmbH

Message:

Cellasto is the trade name for BASF Polyurethanes' high performance, microcellular polyurethane elastomer. Cellasto components have been used successfully for over 35 years as the NVH (Noise, Vibration, Harshness) solution for automotive chassis and suspension applications such as jounce bumpers, shock absorber top mounts and coil spring isolators. Cellasto is also used in many other applications outside of automotive such as: elevator safety buffers; paper conveying components; friction dampers; sub-frame, motor & body mounts; and more.

The outstanding features are:

- Low compression set
- High volume compressibility with minimum lateral expansion
- Excellent mechanical properties & durability
- Highly versatile - noise isolation at small amplitude & high frequency; vibration isolation at large amplitude & low frequency
- Abrasion resistant
- Resistant to ozone, oils, greases and other aliphatic hydrocarbons

| General Information        |                                 |                   |             |
|----------------------------|---------------------------------|-------------------|-------------|
| Features                   | Low compressive deformability   |                   |             |
|                            | Shock absorption                |                   |             |
|                            | Noise reduction                 |                   |             |
|                            | Good wear resistance            |                   |             |
|                            | Ozone resistance                |                   |             |
|                            | Hydrocarbon resistance          |                   |             |
|                            | Durability                      |                   |             |
|                            | Oil resistance                  |                   |             |
|                            | Grease resistance               |                   |             |
| Uses                       | Application in Automobile Field |                   |             |
| Processing Method          | Foam treatment                  |                   |             |
| Physical                   | Nominal Value                   | Unit              | Test Method |
| Apparent Density           | 0.40                            | g/cm <sup>3</sup> | ASTM D3574A |
| Elastomers                 | Nominal Value                   | Unit              | Test Method |
| Tensile Strength           | 3.50                            | MPa               | ASTM D3574E |
| Tensile Elongation (Break) | 350                             | %                 | ASTM D3574E |
| Tear Strength              | 10.0                            | kN/m              |             |
| Compression Set            |                                 |                   | ASTM D3574D |
| 20°C, 70 hr                | 3.5                             | %                 | ASTM D3574D |
| 70°C, 22 hr                | 5.0                             | %                 | ASTM D3574D |

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