

# Elastollan® C 59 D 53

## Thermoplastic Polyurethane Elastomer (Polyester)

### Elastogran GmbH

| General         |                      |
|-----------------|----------------------|
| Material Status | • Commercial: Active |
| Availability    | • Europe             |
| Forms           | • Pellets            |

| Physical | Nominal Value | Unit              | Test Method |
|----------|---------------|-------------------|-------------|
| Density  | 1.23          | g/cm <sup>3</sup> | ISO 1183    |

| Mechanical             | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Tensile Modulus        | 250           | MPa  | ISO 527-2   |
| Tensile Stress (Break) | 50.0          | MPa  | ISO 527-2   |
| Tensile Strain (Break) | 500           | %    | ISO 527-2   |

| Elastomers      | Nominal Value | Unit | Test Method |
|-----------------|---------------|------|-------------|
| Tensile Stress  |               |      | ISO 37      |
| 100% Strain     | 17.0          | MPa  |             |
| 300% Strain     | 30.0          | MPa  |             |
| Tear Strength   | 160           | kN/m | ISO 34-1    |
| Compression Set |               |      | ISO 815     |
| 23°C            | 30            | %    |             |
| 70°C            | 50            | %    |             |

| Impact                         | Nominal Value | Unit              | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength |               |                   | ISO 179     |
| -30°C                          | 6.0           | kJ/m <sup>2</sup> |             |
| 23°C                           | No Break      |                   |             |

| Hardness                 | Nominal Value | Unit | Test Method |
|--------------------------|---------------|------|-------------|
| Shore Hardness (Shore D) | 57            |      | ISO 868     |

#### Additional Information

Note: These properties were tested in accordance with the DIN test standard.  
 Stress at 20% elongation, DIN 53504: 12 Mpa  
 Abrasion Loss, DIN 53516: 20 mm<sup>3</sup>  
 Tensile Strength After Storage in Water, DIN 53504, 80°C for 21 days: 43 Mpa  
 Elongation at Break After Storage in Water, DIN 53504, 80°C for 21 days: 480 %

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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