

## THERMOLAST® K TC8PAN (Series: AD/PA)

KRAIBURG TPE - Thermoplastic Elastomer

### General Information

#### Product Description

The AD/PA series is your material solution for applications with adhesion to PA. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

#### Typical applications

- Thumb wheels
- Seals
- Function and design elements
- Handles (hand tools and power tools etc.)
- Grommets
- Cable clips

#### Material advantages

- Adhesion to PA6 and PA6.6, up to 50% glass fiber
- Adhesion to PA12
- Halogen content (chlorine + bromine) < 900 ppm
- Dry haptics
- Colorable
- Temperature stability up to 90 °C

#### Regulations / Approvals

- DIN 75201-B - Fogging
- 49 CFR §571.302 (FMVSS 302)
- DIN EN ISO 105-B06 Methode 3
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 5562
- Stellantis B62 0300
- Renault 03-10-104
- GM GMW15702
- UL 94 HB

#### General

|                           |                                          |                                                   |                          |
|---------------------------|------------------------------------------|---------------------------------------------------|--------------------------|
| Material Status           | • Commercial: Active                     |                                                   |                          |
| Availability              | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America                       | • North America          |
| Additive                  | • Halogen: < 900 ppm                     |                                                   |                          |
| Features                  | • Good Adhesion                          | • Good Colorability                               | • Good Thermal Stability |
| Uses                      | • Grommets<br>• Handles                  | • Knobs<br>• Seals                                |                          |
| Agency Ratings            | • DIN 75201B                             |                                                   |                          |
| Automotive Specifications | • BMW GS 93042<br>• GM GMW15702          | • MERCEDES BENZ DBL 5562<br>• STELLANTIS B62 0300 | • VOLKSWAGEN 50123       |
| Appearance                | • Natural Color                          |                                                   |                          |
| Processing Method         | • Injection Molding                      |                                                   |                          |

### Properties <sup>1</sup>

| Physical                                | Nominal Value | Unit              | Test Method |
|-----------------------------------------|---------------|-------------------|-------------|
| Density                                 | 1.15          | g/cm <sup>3</sup> | ISO 1183    |
| Elastomers                              | Nominal Value | Unit              | Test Method |
| Tensile Stress <sup>2</sup> (Break)     | 798           | psi               | ISO 37      |
| Tensile Elongation <sup>2</sup> (Break) | 350           | %                 | ISO 37      |



|                                     |                      |             |
|-------------------------------------|----------------------|-------------|
| Tear Strength <sup>3</sup>          | 154 lbf/in           | ISO 34-1    |
| <b>Hardness</b>                     | <b>Nominal Value</b> | <b>Unit</b> |
| Shore Hardness (Shore A)            | 80                   | ISO 48-4    |
| <b>Flammability</b>                 | <b>Nominal Value</b> | <b>Unit</b> |
| Flame Rating                        | HB                   | UL 94       |
| <b>Additional Information</b>       | <b>Nominal Value</b> | <b>Unit</b> |
| Adhesion to PA6 - (D) <sup>4</sup>  | 49 lbf/in            | VDI 2019    |
| Adhesion to PA66 - (D) <sup>4</sup> | 49 lbf/in            | VDI 2019    |

Notes

- <sup>1</sup> Typical properties: these are not to be construed as specifications.
- <sup>2</sup> Type S2, 7.9 in/min
- <sup>3</sup> Method Bb, Angle (Nicked)
- <sup>4</sup> Two-component injection molding

