

# THERMOLAST® K TP8VCZ (Series: AD1/CS)

Thermoplastic Elastomer

KRAIBURG TPE

## Message:

The AD1/CS Series is your material solution for applications with excellent adhesion to polar thermoplastics such as ABS, PC and PC/ABS as well as excellent compression set. The compounds are available in natural and black colors.

Typical applications

Fastenings

Grommets

Membranes

Seals

Material advantages

Easy coloring (compounds in natural colors)

Excellent compression set

Insert molding possible

UL 94 HB listed

| General Information                     |                   |                   |                  |
|---|-------------------|-------------------|------------------|
| UL YellowCard                           | E353857-101117947 |                   |                  |
| Uses                                    | Fasteners         |                   |                  |
|   | Grommets          |                   |                  |
|   | Membranes         |                   |                  |
|   | Seals             |                   |                  |
| Appearance                              | Black             |                   |                  |
| Processing Method                       | Extrusion         |                   |                  |
|   | Injection Molding |                   |                  |
| Physical                                | Nominal Value     | Unit              | Test Method      |
| Density                                 | 1.10              | g/cm <sup>3</sup> | ISO 1183         |
| Hardness                                | Nominal Value     | Unit              | Test Method      |
| Shore Hardness (Shore A)                | 80                |                   | ISO 7619         |
| Elastomers                              | Nominal Value     | Unit              | Test Method      |
| Tensile Stress <sup>1</sup> (Yield)     | 10.0              | MPa               | ISO 37           |
| Tensile Elongation <sup>2</sup> (Break) | 600               | %                 | ISO 37           |
| Tear Strength <sup>3</sup>              | 24                | kN/m              | ISO 34-1         |
| Compression Set <sup>4</sup>            |                   |                   | ISO 815          |
| 23°C, 72 hr                             | 23                | %                 |                  |
| 70°C, 24 hr                             | 47                | %                 |                  |
| 100°C, 24 hr                            | 60                | %                 |                  |
| Flammability                            | Nominal Value     |                   | Test Method      |
| Flame Rating                            | HB                |                   | UL 94            |
| Additional Information                  | Nominal Value     | Unit              | Test Method      |
| Adhesion to ABS                         | 6.0               | kN/m              | Renault D41/1916 |

|                        |                           |      |                  |
|------------------------|---------------------------|------|------------------|
| Adhesion to PC         | 17.0                      | kN/m | Renault D41/1916 |
| Adhesion to PC/ABS     | 19.0                      | kN/m | Renault D41/1916 |
| Extrusion              | Nominal Value             | Unit |                  |
| Drying Temperature     | 80.0                      | °C   |                  |
| Drying Time            | 4.0                       | hr   |                  |
| Suggested Max Moisture | 0.020                     | %    |                  |
| Cylinder Zone 1 Temp.  | 160                       | °C   |                  |
| Cylinder Zone 2 Temp.  | 180                       | °C   |                  |
| Cylinder Zone 3 Temp.  | 200                       | °C   |                  |
| Die Temperature        | 220                       | °C   |                  |
| NOTE                   |                           |      |                  |
| 1.                     | Type S2, 200 mm/min       |      |                  |
| 2.                     | Type S2, 200 mm/min       |      |                  |
| 3.                     | Method Bb, Angle (Nicked) |      |                  |
| 4.                     | Method A                  |      |                  |

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