

# COPEC® CC8OCZ (Series: VS/AD1)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The VS/AD1 Series is your material solution for applications in the consumer electronics section. The compounds feature an exceptionally silky and velvety surface, accompanied by excellent adhesion properties to polar thermoplastics such as ABS, PC and PC/ABS.

Typical applications

Ear phones

Game consoles

Handles and grips for consumer applications

Remote controls

Seals

Material advantages

Easy coloring (compounds in natural colors)

Excellent color stability

Good weathering resistance

Insert molding possible

Pleasant surface feel (Soft touch)

Resistance against skin oil, sunscreens and olive oil

Smooth and silky surface

UL 94 HB listed

| General Information |                                    |
|---------------------|------------------------------------|
| UL YellowCard       | E214822-101550670                  |
| Features            | Good Adhesion                      |
|                     | Good Color Stability               |
|                     | Good Weather Resistance            |
|                     | Oil Resistant                      |
|                     | Soft                               |
| Uses                | Consumer Applications              |
|                     | Electrical/Electronic Applications |
|                     | Handles                            |
|                     | Seals                              |
| Appearance          | Black                              |
| Processing Method   | Extrusion                          |
|                     | Injection Molding                  |

| Physical                            | Nominal Value | Unit  | Test Method |
|-------------------------------------|---------------|-------|-------------|
| Density                             | 1.31          | g/cm³ | ISO 1183    |
| Hardness                            | Nominal Value | Unit  | Test Method |
| Shore Hardness (Shore A)            | 76            |       | ISO 7619    |
| Elastomers                          | Nominal Value | Unit  | Test Method |
| Tensile Stress <sup>1</sup> (Yield) | 7.50          | MPa   | ISO 37      |

|   |                           |      |                  |
|---|---------------------------|------|------------------|
| Tensile Elongation <sup>2</sup> (Break) | 900                       | %    | ISO 37           |
| Tear Strength <sup>3</sup>              | 31                        | kN/m | ISO 34-1         |
| Compression Set <sup>4</sup>            |                           |      | ISO 815          |
| 23°C, 72 hr                             | 18                        | %    |                  |
| 70°C, 24 hr                             | 57                        | %    |                  |
| 100°C, 24 hr                            | 69                        | %    |                  |
| Flammability                            | Nominal Value             |      | Test Method      |
| Flame Rating                            | HB                        |      | UL 94            |
| Additional Information                  | Nominal Value             | Unit | Test Method      |
| Adhesion to ABS                         | 25.0                      | kN/m | Renault D41/1916 |
| Adhesion to PC                          | 40.0                      | 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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