

Technical Data

Product Description

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

- Game consoles
- Handles and grips for consumer applications
- Headphones
- 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

| | | | |
|-----------------------------|---|--|---------------------------|
| Material Status | • Commercial: Active | | |
| Literature ¹ | • Technical Datasheet (English) | | |
| UL Yellow Card ² | <ul style="list-style-type: none"> • E214822-101550670 • E353857-101554417 • E488345-102949536 | | |
| Search for UL Yellow Card | • KRAIBURG TPE | | |
| Availability | • Africa & Middle East • Europe | • Latin America • North America | |
| Features | • Good Adhesion • Good Color Stability | • Good Colorability • Good Weather Resistance | • Oil Resistant • Soft |
| Uses | • Consumer Applications • Electrical/Electronic Applications | • Handles • Seals | |
| Appearance | • Natural Color | | |
| Processing Method | • Extrusion | • Injection Molding | |

| Physical | Nominal Value Unit | Test Method |
|---|------------------------|-------------|
| Density | 1.33 g/cm ³ | ISO 1183 |
| Elastomers | Nominal Value Unit | Test Method |
| Tensile Stress ⁴ (Break) | 6.50 MPa | ISO 37 |
| Tensile Elongation ⁴ (Break) | 850 % | ISO 37 |
| Tear Strength ⁵ | 31.0 kN/m | ISO 34-1 |
| Compression Set ⁶ | | ISO 815 |
| 23°C, 72 hr | 21 % | |
| 70°C, 24 hr | 52 % | |
| 100°C, 24 hr | 73 % | |
| Hardness | Nominal Value Unit | Test Method |
| Shore Hardness (Shore A) | 78 | ISO 7619 |
| Flammability | Nominal Value Unit | Test Method |
| Flame Rating | HB | UL 94 |



COPEC® CC80CN (Series: VS/AD1)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

www.ulprospector.com

| Additional Information | Nominal Value Unit | Test Method |
|------------------------------|--------------------|-------------|
| Adhesion to ABS ⁷ | 25.0 kN/m | VDI 2019 |
| Adhesion to PC ⁷ | 40.0 kN/m | VDI 2019 |

| Injection | Nominal Value Unit |
|--------------------|--------------------|
| Drying Temperature | 80 °C |
| Drying Time | 2.0 to 6.0 hr |
| Rear Temperature | 180 °C |
| Middle Temperature | 190 °C |
| Front Temperature | 200 °C |
| Mold Temperature | 25 to 40 °C |
| Injection Pressure | 20.0 to 100 MPa |
| Back Pressure | 2.00 to 10.0 MPa |

| Extrusion | Nominal Value Unit |
|------------------------|--------------------|
| Drying Temperature | 80 °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 |
| Screw L/D Ratio | 25.0:1.0 |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Type S2, 200 mm/min

⁵ Method Bb, Angle (Nicked)

⁶ Method A

⁷ Two-component injection molding



COPEC® CC80CN (Series: VS/AD1)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

KRAIBURG TPE

Duluth, GA USA

Telephone: 678-584-5020

Web: <http://www.kraiburgtpe.com/>

Distributor

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

Lenorplastics Zug

Telephone: +41-41-798-02-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Hungary, Poland

