

The AD1 series is your material solution for applications with adhesion to polar thermoplastics such as ABS, PC and PC/ABS. The compounds are available in black and natural colors. Natural color variants can be colored in many different ways.

Processing Method

Injection Molding, Extrusion

Color / RAL DESIGN

■ Natural ■ Black

Typical applications

- Thumb wheels
- Bumpers
- Seals
- Door sills
- Function and design elements
- Handles (hand tools and power tools etc.)
- Grommets
- Soft touch surface (thumb wheels, push buttons, switches)

Material advantages

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Insert molding possible
- Soft touch surface
- Controlled level of emission and odor, suitable for automotive interior
- Colorable
- Soft, non-sticky haptic

Regulations / Approvals

- DIN 75201-B - Fogging
- VDA 270 B3 - Odor
- 49 CFR §571.302 (FMVSS 302)
- DIN EN ISO 105-B06 Methode 3
- VW 50123
- BMW GS 93042
- Daimler DBL 5562
- PSA B62 0300
- Renault 03-10-104
- Ford WSS-M2D507
- UL 94 HB

The product storage life is 12 months after delivery if storage instructions are followed. Store under dry conditions at room temperature (15–30 °C) away from heat sources and direct sunlight! Contact with nitrogen oxides must be avoided during storage!

For further information and individual custom solutions please contact our customer service.

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Disclaimer: The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication and may be subject to revision as new knowledge and data becomes available. All values reported are typical values based on sample test results and are not a guarantee of performance. The responsibility to conduct testing to determine suitability of use for the particular process or end-use application remains with the customer.

Compound name	Color / RAL DESIGN	Hardness DIN ISO 48-4 Shore A	Density DIN EN ISO 1183-1 g/cm ³	Tensile Strength ¹ DIN 53504/ISO 37 MPa	Elongation at Break ¹ DIN 53504/ISO 37 %	Tear Resistance ISO 34-1 Methode B (b) (Graves) N/mm	Adhesion to ABS ² VDI 2019 two-component injection molding N/mm	Adhesion to PC ² VDI 2019 two-component injection molding N/mm
TC3MSB	Natural	31	1.100	2.0	600	9.0	1.5 (A)	1.5 (A)
TC3MSZ	Black	30	1.100	2.0	600	9.0	1.5 (A)	1.5 (A)
TC4MSB	Natural	39	1.100	3.0	650	10.0	2.5 (A)	2.0 (A)
TC4MSZ	Black	40	1.100	3.0	650	10.0	2.5 (B)	2.5 (A)
TC5MLB	Natural	50	1.100	3.5	600	13.0	2.0 (A)	2.0 (A)
TC5MLZ	Black	49	1.100	3.5	600	13.0	2.0 (A)	2.5 (A)
TC6MLB	Natural	60	1.100	4.5	550	16.5	4.0 (A)	3.0 (A)
TC6MLZ	Black	59	1.100	4.5	550	16.5	4.0 (B)	3.5 (B)
TC7MLB	Natural	68	1.100	5.0	500	16.0	6.5 (D)	5.5 (B)
TC7MLZ	Black	69	1.100	5.0	500	16.0	5.5 (D)	5.9 (B)
TC8MLB	Natural	77	1.100	5.5	400	17.0	6.0 (D)	8.0 (D)
TC8MLZ	Black	77	1.100	5.5	400	19.5	8.0 (D)	8.5 (D)

¹Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.

²The adhesion quality depends on mold design, product geometry and process parameters.

All values published in this data sheet are rounded average values.

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