

THERMOLAST® K TC5MLZ (Series: AD1)

Thermoplastic Elastomer
KRAIBURG TPE

Technical Data

Product Description

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

Typical applications

- Bumpers
- Door sills
- Function and design elements
- Grommets
- Handles (hand tools and power tools etc.)
- Seals
- Thumb wheels

Material advantages

- Easy coloring (compounds in natural colors)
- Excellent adhesion
- Excellent processing behavior
- Insert molding possible
- Pleasant surface feel (Soft touch)
- Suitable for automotive-interior
- UL 94 HB listed
- UV resistance

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Adhesion • Good Processability • Soft • UV Resistant
Uses	• Automotive Interior Parts • Grommets • Handles • Seals
Appearance	• Black
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.10 g/cm ³	1.10 g/cm ³	ISO 1183
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress ² (Yield)	508 psi	3.50 MPa	ISO 37
Tensile Elongation ² (Break)	600 %	600 %	ISO 37
Tear Strength ³	74 lbf/in	13 kN/m	ISO 34-1
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A)	49	49	ISO 7619
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Adhesion to ABS	11 lbf/in	2.0 kN/m	Renault D41/1916
Adhesion to PC	11 lbf/in	2.0 kN/m	Renault D41/1916



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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	140 to 176 °F	60 to 80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	356 °F	180 °C
Middle Temperature	410 °F	210 °C
Front Temperature	464 °F	240 °C
Mold Temperature	104 to 140 °F	40 to 60 °C
Injection Pressure	2900 to 14500 psi	20.0 to 100 MPa
Back Pressure	290 to 1450 psi	2.00 to 10.0 MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type S2, 7.9 in/min (200 mm/min)

³ Method Bb, Angle (Nicked)



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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

Resin Resource, Inc.

Telephone: 877-652-3431

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

Availability: North America

Resinal de México

Telephone: +52-55-5254-7600

Web: <http://resinal.mx/>

Availability: Mexico

