

# THERMOLAST® A TA5AOZ (Series: UV/AD1)

Thermoplastic Elastomer

**KRAIBURG TPE**

**PROSPECTOR®**

www.ulprospector.com

## Technical Data

### Product Description

The UV/AD1 Series is your material solution for applications requiring a high UV resistance and adhesion to polar thermoplastics such as PC, ABS, PC/ABS. It is particularly appropriate for automotive exterior components.

#### Typical applications

- Handles (hand tools and power tools etc.)
- Seals for windows and doors

#### Material advantages

- Easy flowing
- Excellent adhesion
- Excellent resistance against oil and grease
- Perfect surface finish
- UV resistance

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Flow	• Grease Resistant • Oil Resistant	• Outstanding Surface Finish • UV Resistant
Uses	• Automotive Exterior Parts	• Handles	• Seals
Appearance	• Black		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.15 g/cm <sup>3</sup>	1.15 g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress <sup>2</sup> (Yield)	435 psi	3.00 MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	600 %	600 %	ISO 37
Tear Strength <sup>3</sup>	74 lbf/in	13 kN/m	ISO 34-1
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore A)	47	47	ISO 7619
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Adhesion to ABS	8.6 lbf/in	1.5 kN/m	Renault D41/1916
Adhesion to PC	29 lbf/in	5.0 kN/m	Renault D41/1916
Adhesion to PC/ABS	23 lbf/in	4.0 kN/m	Renault D41/1916

Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.020 %	0.020 %
Cylinder Zone 1 Temp.	320 °F	160 °C
Cylinder Zone 2 Temp.	356 °F	180 °C
Cylinder Zone 3 Temp.	392 °F	200 °C
Die Temperature	428 °F	220 °C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type S2, 7.9 in/min (200 mm/min)

<sup>3</sup> 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

