

# THERMOLAST® K TC4MSB (Series: AD1)

Thermoplastic Elastomer

KRAIBURG TPE

## Message:

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 Information			
UL YellowCard	E353857-101117936	E214822-101137312	
Features	Good Adhesion		
	Good Colorability		
	Good Processability		
	Good UV Resistance		
	Soft		
Uses	Automotive Interior Parts		
	Grommets		
	Handles		
	Seals		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	39		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	3.00	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	650	%	ISO 37

Tear Strength <sup>3</sup>	10	kN/m	ISO 34-1
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS	2.5	kN/m	Renault D41/1916
Adhesion to PC	3.0	kN/m	Renault D41/1916
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180	°C	
Middle Temperature	210	°C	
Front Temperature	240	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Pressure	20.0 to 100	MPa	
Back Pressure	2.00 to 10.0	MPa	
NOTE			
1.	Type S2, 200 mm/min		
2.	Type S2, 200 mm/min		
3.	Method Bb, Angle (Nicked)		

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