

THERMOLAST® K TP5VCN (Series: AD1/CS)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

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

Typical applications

Fastenings

Grommets

Membranes

Seals

Material advantages

Easy coloring (compounds in natural colors)

Excellent compression set

Insert molding possible

UL 94 HB listed

General Information			
UL YellowCard	E353857-101117947		
Features	Good Colorability		
Uses	Fasteners		
	Grommets		
	Membranes		
	Seals		
Appearance	Natural Color		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	47		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	3.50	MPa	ISO 37
Tensile Elongation ² (Break)	500	%	ISO 37
Tear Strength ³	11	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	13	%	
70°C, 24 hr	43	%	
100°C, 24 hr	76	%	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method

Adhesion to ABS	5.0	kN/m	Renault D41/1916
Adhesion to PC	4.0	kN/m	Renault D41/1916
Adhesion to PC/ABS	4.5	kN/m	Renault D41/1916
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°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	

NOTE

1. Type S2, 200 mm/min
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3. Method Bb, Angle (Nicked)
4. Method A

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