

THERMOLAST® M TM5ADT (Series: MC/AD1)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The MC/AD1 Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by excellent adhesion properties to polar thermoplastics such as PC, ABS, PC/ABS. The compounds are produced exclusively by a special medical unit.

Typical applications

Flexible Connections

Membranes

Seals

Soft touch

Valves

Material advantages

DMF listed

Excellent mechanical properties

For injection molding

Free of animal based ingredients

KRAIBURG TPE Medical service package (description below)

Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, EtO)

Tested according to ISO 10993-5

General Information			
Features	Autoclave Sterilizable		
	Ethylene Oxide Sterilizable		
	Good Adhesion		
	No Animal Derived Components		
	Radiation Sterilizable		
Uses	Connectors		
	Medical/Healthcare Applications		
	Membranes		
	Seals		
	Soft Touch Applications		
Agency Ratings	DMF 25604		
	ISO 10993 Part 5		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	50		ISO 7619
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress ¹ (Yield)	5.50	MPa	ISO 37
Tensile Elongation ² (Break)	600	%	ISO 37
Tear Strength ³	9.5	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	17	%	
70°C, 24 hr	38	%	
Additional Information	Nominal Value	Unit	Test Method
Adhesion to ABS	9.0	kN/m	Renault D41/1916
Adhesion to PC	11.0	kN/m	Renault D41/1916
Adhesion to PETG	7.5	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)		
4.	Method A		

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