

# THERMOLAST® M TM9HET (Series: MC/HE)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

he MC/HE Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by combining excellent elasticity with high hardness. The compounds are produced exclusively by a special medical unit and available in translucent colors.

Typical applications

Drip chamber

Luer lock

Squeeze bottles

Material advantages

Adhesion to PP

DMF listed

Free of animal based ingredients

High elasticity

High stiffness

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		
	High Elasticity		
	High Hardness		
	High Stiffness		
	No Animal Derived Components		
	Radiation Sterilizable		
Uses	Bottles		
	Medical/Healthcare Applications		
Agency Ratings	DMF 25601		
	ISO 10993 Part 5		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	39		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	18.5	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	750	%	ISO 37

Tear Strength <sup>3</sup>	74	kN/m	ISO 34-1
Compression Set <sup>4</sup>			ISO 815
23°C, 72 hr	62	%	
70°C, 24 hr	83	%	
100°C, 24 hr	85	%	

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	200	°C
Front Temperature	220	°C
Mold Temperature	25.0 to 40.0	°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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#### Recommended distributors for this material

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