

# Tritan™ MXF121

Copolyester  
Eastman Chemical Company

Message:

Eastman Tritan™ Copolyester MXF121 is an amorphous opaque product. Eastman Tritan™ Copolyester MXF121 contains a mold release derived from vegetable based sources. Eastman Tritan™ Copolyester MXF121 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, chemical resistance, and melt flowability. Eastman Tritan™ Copolyester MXF121 has been formulated for medical devices. Eastman Tritan™ Copolyester MXF121 has passed FDA/ISO 10993 testing for cytotoxicity, skin sensitization, and intracutaneous reactivity.

General Information			
Additive	Mold Release		
Features	Amorphous		
	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Flow		
	Good Processability		
	Good Toughness		
	High Heat Resistance		
	Hydrolytically Stable		
Uses	Medical Devices		
	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
Appearance	Opaque		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1610	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	43.0	MPa	
Break, 23°C	47.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	6.0	%	
Break, 23°C	130	%	
Flexural Modulus (23°C)	1750	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	420	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	94.0	°C	
1.8 MPa, Unannealed	83.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-2		
Injection	Nominal Value	Unit	
Drying Temperature	88.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	260 to 282	°C	
Mold Temperature	38.0 to 66.0	°C	

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