

# Tritan™ TFX1021

Copolyester  
Eastman Chemical Company

## Message:

Eastman Tritan™ Copolyester MFX121 is an amorphous opaque product. Eastman Tritan™ Copolyester MFX121 contains a mold release derived from vegetable based sources. Eastman Tritan™ Copolyester MFX121 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, chemical resistance, and melt flowability. Eastman Tritan™ Copolyester MFX121 has been formulated for medical devices. Eastman Tritan™ Copolyester MFX121 has passed FDA/ISO 10993 testing for cytotoxicity, skin sensitization, and intracutaneous reactivity.

General Information			
Additive	Flame Retardant		
Features	Amorphous		
	Flame Retardant		
	Good Chemical Resistance		
	Good Flow		
	Good Processability		
	Good Toughness		
	High Gloss		
	High Heat Resistance		
	Hydrolytically Stable		
Uses	Pleasing Surface Appearance		
	Appliance Components		
	Computer Components		
	Electrical/Electronic Applications		
	Housings		
Agency Ratings	Personal Care		
	ISO 10993		
	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	42.0	MPa	
Break, 23°C	46.0	MPa	

Tensile Elongation			ASTM D638
Yield, 23°C	6.0	%	
Break, 23°C	130	%	
Flexural Modulus (23°C)	1740	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	440	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	
Electrical	Nominal Value		Test Method
Dielectric Constant			ASTM D150
23°C, 1.50 mm, 1 kHz	3.31		
23°C, 1.50 mm, 1 MHz	3.04		
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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