Tritan™ TX2001

Copolyester

Eastman Chemical Company

Message:

Eastman Tritan™ TX2001 is an amorphous copolyester with excellent appearance and clarity. Tritan™ TX2001 contains a mold release derived from vegetable based sources. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. This new-generation copolyester can also be molded into various applications without incorporating high levels of residual stress. Combined with Tritan™ copolyester's outstanding chemical resistance and hydrolytic stability, these features give molded products enhanced durability in the dishwasher environment, which can expose products to high heat, humidity, and aggressive cleaning agents. Tritan™ TX2001 copolyester may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Tritan™ TX2001 copolyester is certified to NSF/ANSI Standard 51 for Food Equipment Materials and is also certified to NSF/ANSI Standard 61 - Drinking Water System Components-Health Effects.

General Information	
UL YellowCard	E118289-100101424
Additive	Mold Release
Features	Amorphous
	Copolymer
	Durable
	Fast Molding Cycle
	Food Contact Acceptable
	Good Chemical Resistance
	Good Mold Release
	Good Processability
	Good Toughness
	High Clarity
	High Heat Resistance
	High Impact Resistance
	Hydrolytically Stable
	Pleasing Surface Appearance
Uses	Appliances
	Consumer Applications
	Household Goods
	White Goods & Small Appliances
Agency Ratings	FDA Food Contact, Unspecified Rating
	NSF 51
	NSF 61
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm^3	ASTM D792

Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	1590	MPa	ASTM D638
23°C	1620	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	44.0	MPa	ASTM D638
Yield, 23°C	45.0	MPa	ISO 527-2
Break, 23°C	53.0	MPa	ASTM D638
Break, 23°C	49.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	7.0	%	ASTM D638, ISO 527-2
Break, 23°C	140	%	ASTM D638
Break, 23°C	130	%	ISO 527-2
Flexural Modulus			
23°C	1590	MPa	ASTM D790
23°C	1530	MPa	ISO 178
Flexural Strength (Yield, 23°C)	66.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	650	J/m	ASTM D256
-40°C	14	kJ/m^2	ISO 180
23°C	66	kJ/m^2	ISO 180
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	109	°C	
1.8 MPa, Unannealed	92.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (Total)	92.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
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	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China