Tritan™ TX1501HF

Copolyester

Eastman Chemical Company

Message:

Eastman Tritan™ copolyester TX1501HF is a high flow grade of Eastman Tritan™. Eastman Tritan™ copolyester TX1501HF has viscosity reductions of 40-50% relative to Eastman Tritan™ copolyester TX1001. Eastman Tritan™ copolyester TX1501HF contains a mold release derived from vegetable based sources. Other outstanding features include good toughness, hydrolytic stability, and heat and chemical resistance. Eastman Tritan™ copolyester TX1501HF may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Eastman Tritan™ copolyester TX1501HF 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	E118289-100238009		
Additive	Mold Release		
Features	Amorphous		
	Durable		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Mold Release		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Flow		
	High Heat Resistance		
	High Impact Resistance		
	Hydrolytically Stable		
	Low Viscosity		
Uses	Appliances		
	Consumer Applications		
	Household Goods		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	NSF 51		
	NSF 61		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**

Rockwell Hardness (R-Scale, 23°C)	111		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	1580	MPa	ASTM D638
23°C	1600	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	43.0	MPa	ASTM D638
Yield, 23°C	44.0	MPa	ISO 527-2
Break, 23°C	52.0	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	210	%	ASTM D638
Break, 23°C	150	%	ISO 527-2
Flexural Modulus			
23°C	1580	MPa	ASTM D790
23°C	1500	MPa	ISO 178
Flexural Stress			
23°C	60.0	MPa	ISO 178
Yield, 23°C	64.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	860	J/m	ASTM D256
-40°C	11	kJ/m^2	ISO 180
23°C	83	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	94.0	°C	
1.8 MPa, Unannealed	81.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (Total)	91.0	%	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

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