

Product Data Sheet



Application/Uses

- Extrusion coating
- Medical & Pharmaceutical packaging
- Specialty laminations & packaging

Key Attributes

- Does not contain Bisphenol-A (BPA)
- Does not contain plasticizers
- Excellent clarity
- Excellent hydrolytic stability
- Good heat resistance
- Good melt flow
- No pre-drying of film prior to thermoforming
- Outstanding chemical resistance
- Tremendous toughness
- Wide thermoforming window

Product Description

Eastman Tritan copolyester MP150 is a high flow grade of Eastman Tritan. Eastman Tritan copolyester MP150 has viscosity reductions of 40-50% relative to Eastman Tritan copolyester MP100. It is intended for use in extrusion coating processes or where high melt flow rate is desirable.

Other outstanding features include good toughness, hydrolytic stability, and heat and chemical resistance. Eastman Tritan copolyester MP150 may be used in food contact applications with restrictions and is compliant with applicable and select sections of USP 35 <661>, ISO10993, and ISO11607.

Typical Properties (Preliminary)

Property ^a	Test ^b Method	Typical Value, Units ^c
Concept Droportion		
General Properties		
Specific Gravity	D 792	1.18
Mold Shrinkage	D 955	0.005-0.007 mm/mm (0.005- 0.007 in./in.)
Mechanical Properties		
Tensile Stress @ Yield	D 638	43 MPa (6200 psi)
Tensile Stress @ Break	D 638	52 MPa (7500 psi)
Elongation @ Yield	D 638	7%
Elongation @ Break	D 638	210%
Tensile Modulus	D 638	1575 MPa (2.28 x 10 ⁵ psi)





Flexural Modulus	D 790	1575 MPa (2.28 x 10 ⁵ psi)
Flexural Yield Strength	D 790	64 MPa (9300 psi)
Rockwell Hardness, R Scale	D 785	111
Izod Impact Strength, Notched @ 23°C (73°F)	D 256	860 J/m (16.1 ft·lbf/in.)
Impact Strength, Unnotched @ 23°C (73°F)	D 4812	NB
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	94°C (201°F)
@ 1.82 MPa (264 psi)	D 648	81°C (178°F)
Glass Transition Temperature (T _g)	DSC	110°C (229°F)
Optical Properties		
Total Transmittance	D 1003	91%
Haze	D 1003	<1%
Film Properties (Cast Film)		
Thickness of Film Tested		5 mils
Tear Strength, notched		
T.D Max Force	EMN	14 lbf
T.D Work to Fracture	EMN	0.10 J/mm ²
Gardner Impact Resistance 8-lb. Falling Weigh - Mean Fracture Energy	nt D 5420	3.5 J
Tensile Strength @ Break	D 882	41 lbf
Tensile Stress @ Break	D 882	8200 psi
Elongation @ Break	D 882	217%
Tensile Modulus	D 882	142000 psi
Typical Processing Conditions		
Drying Temperature		88°C (190°F)
Drying Time		4-6 hrs
Processing Melt Temperature		260-282°C (500-540°F)
Mold Temperature		38-66°C (100-150°F)
a Unless noted otherwise all tests are run at 23°C (73	°E) and 50% rela	tive humidity

^a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

b Unless noted otherwise, the test method is ASTM.

^c Units are in SI or US customary units.

Comments

Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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