Eastalite™ Copolyester MP007F

Copolyester

Eastman Chemical Company

Message:

Eastalite™ Foamed Copolyester MP007F with nonporous Eastar™ Copolyester 6763 skins is an opaque, amorphous material with a closed foam structure useful for medical packaging. It is normally white/pearlescent in appearance but may also be colored using Eastman resins and concentrates.
Application/Uses
Medical kits
Medical mounting cards
Opaque medical and pharmaceutical packaging
Thermoformed packaging
Work-in-process trays
Key Attributes
Can be recycled with other copolyesters for use in nonmedical post-consumer markets
Color and functional stability following ethylene oxide (EtO), gamma or e-beam irradiation, or gas plasma sterilization
Compliant with applicable sections of ISO 11607 including microbial barrier
Complies with select ISO 10993 requirements for biocompatibility of medical devices
Decreased thermoforming cycle time and energy use
Greater design flexibility including durability, easy printing, deep undercuts, long-life hinges, enhanced product protection
Greater tear and flex strength than more brittle and crack susceptible HIPS
Light blocking and opacity
Light weight Styrene-free alternative
Made without other materials of concern, including Latex, Butadiene, BPA and bisphenol S (BPS), ortho-phthalates, PVC, halogens
Meets environmentally preferable purchasing guidelines
Minimal generation of particulates and angel hair when trimmed or cut Minimal stress whitening
Provides good heat seal performance to common lidding materials used with copolyesters
Surface modifications are not necessary for COF and blocking force control
Sustainable LCA -The global warming potential per tray is 0.33 kg CO2-eq/tray made using MP007F
Temperature insulating effect

General Information	
Features	Electron beam disinfection
	Radiation disinfection
	Ethylene oxide disinfection
	Foamable property
	Recyclable materials
	Good heat sealability
	Biocompatibility
	amorphous
	Bacterial Barrier
Uses	Foam
	Drug packaging
	Medical/nursing supplies
	Medical packaging
Agency Ratings	ISO 10993
Appearance	White

Opacity	
Available colors	
Pearl color	

Processing Method	Thermoforming		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.778	g/cm³	ASTM D792
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested			ASTM D374
-- [1]	60	µm	ASTM D374
-- [2]	1000	µm	ASTM D374
Elastic Modulus - MD	691	MPa	ASTM D882
Elastic Modulus - TD	639	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	16.0	MPa	ASTM D882
TD: Yield	16.3	MPa	ASTM D882
MD: Fracture	18.1	MPa	ASTM D882
TD: Fracture	18.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield	4.4	%	ASTM D882
TD: Yield	4.4	%	ASTM D882
MD: Fracture	53	%	ASTM D882
TD: Fracture	71	%	ASTM D882
Graves Tear			ASTM D1004
MD	155.0	kN/m	ASTM D1004
TD	163.0	kN/m	ASTM D1004
Dart impact with measuring instrument-Max Load	244	N	ASTM D3763
Optical	**Nominal Value**	**Unit**	**Test Method**
Opacity	88	%	Internal method
NOTE			
1.	Thickness of Each Eastar™ Copolyester Skin Layer		
2.	Total Thickness of A/B/A Sheet Tested		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

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