Product Data Sheet

Eastalite™ Copolyester MP007F

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

Product Description

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.

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Typical Properties

Property[a]	Test[b] Method	Typical Value, Units[c]
Total Thickness of A/B/A Sheet Tested	D 374	1.01 mm (39.68 mils)
Thickness of Each Eastar™ Copolyester Skin Layer	D 374	0.06 mm (2.38 mils)
Specific Gravity	D 792	0.78
Opacity	EMN	88%
Mechanical Properties		
Instrumented Impact, Max Load	D 3763	244 N (55 lbf)
Tear Resistance, Graves		
M.D.	D 1004	155 N/mm (844 lbf/in.)
T.D.	D 1004	163 N/mm (1393 lbf/in.)
Tensile Strength @ Yield		
M.D.	ASTM D 882	16.0 MPa (2318 psi)
T.D.	ASTM D 882	16.3 MPa (2371 psi)
Tensile Strength @ Break		
M.D.	ASTM D 882	18.1 MPa (2619 psi)
T.D.	ASTM D 882	18.3 MPa (2659 psi)
Elongation @ Yield		
M.D.	ASTM D 882	4.4%
T.D.	ASTM D 882	4.4%
Elongation @ Break		
M.D.	ASTM D 882	53%
T.D.	ASTM D 882	71%
Youngs Modulus		
M.D.	D 882	691 MPa (100160 psi)
T.D.	D 882	639 MPa (92687 psi)

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.*

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Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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