

DuPont™ Oasis® 200TRT515

Composite Film

Product Description

Oasis® 200TRT515 is a heat sealable composite film that is made using DuPont high tensile strength polyimide film and fluoropolymer designed to meet the normal weight wire requirements of AS22759/80-92. 200TRT515 film has a unique balance of excellent electrical, thermal durability, and chemical resistance properties, including improved hydrolytic stability, that make it ideal for the next generation of aerospace wire designs.

200TRT515 film possesses excellent bonding characteristics to itself and to other fluoropolymer-containing materials, while providing low adhesion to metal conductors for ease of stripping. These unique bonding characteristics should provide a wide operating window for producing modern composite wire insulations.

This material can be processed on most taping machines designed to wrap polyimide based films around electrical conductors.

Applications

Aerospace Wire and Cable

- airframe wires
- hookup wires
- general purpose aircraft wires

Specialty Wires

- magnet wire
- satellite wire

Packaging

Oasis® 200TRT515 composite film is available in various standard roll packages. Custom roll packages can be produced with applicable upcharges. Contact your regional sales representative for additional information.

Additional product information, processing requirements and the safe handling of Oasis® can be found in Bulletin EI-10169.

Table 1. Typical Properties of Oasis® 200TRT515 Film

Property	Units	Typical Value	Test Method
Thickness	mil	2.00	ASTM D-374, Method D
Density	g/cc	1.81	ASTM D-1004-66-1981
Tensile Strength	kpsi	20	ASTM D-882-83, Method A
Tensile Modulus	kpsi	400	ASTM D-882-83, Method A
Elongation	%	60	ASTM D-882-83, Method A
Moisture Content	%	<1.0	DuPont 5204
Heat Seal Strength at 350°C	g/cm	500	DuPont 5210
Seal Initiation Temperature	°C	280	DuPont 5210
Dielectric Strength	V/mil	4500	ASTM D-149-81
Dissipation Factor at 1 kHz	-	0.010	ASTM D-150-81
Dielectric Contant at 1 kHz	-	2.85	ASTM D-150-81
Volume Resistivity	ohm-cm	10 ¹⁶	ASTM D-257-78 (1983)
Yield	ft ² /lb	53.2	DuPont 5217

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For more information on DuPont™ Oasis® composite film or other DuPont products, please visit our website.

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EI-10163 (7/20)