

DuPont[™] Oasis[®] 200TRN515

Composite Film

Description

Oasis[®] 200TRN515 is a heat sealable composite film that is made using DuPont polyimide film and DuPont fluoropolymer. Oasis[®] 200TRN515 has a unique balance of excellent electrical, thermal durability, and chemical resistance properties that make it ideal for most aerospace wire designs.

Oasis[®] 200TRN515 possesses excellent bonding characteristics to itself and to other fluoropolymer-containing materials, while providing low adhesion to metal conductors. These unique bonding characteristics should provide a wide operating window for producing modern composite wire insulations. Processing of this material can be done on most wire taping equipment capable of taping standard polyimide films. The typical properties of Oasis[®] 200TRN515 are listed in **Table 1** below.

Packaging

Oasis[®] tapes are available in three different roll configurations: pad rolls, universal wound rolls, and *Step-Pac*[®] rolls.

Figure 1. Oasis[®] 200TRN515 Heat Sealable Composite Film (material cross-section)

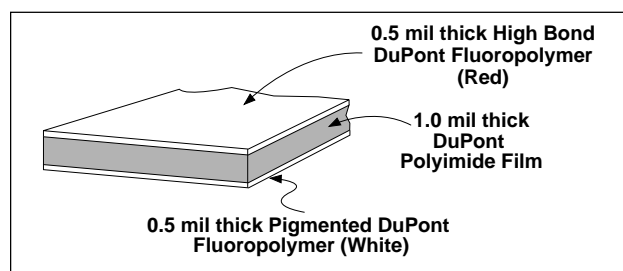


Table 1
Typical Properties of Oasis[®] 200TRN515

Property	Unit	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	17	ASTM D-882-83, Method A
Tensile Modulus	kpsi	200	ASTM D-882-83, Method A
Elongation	%	85	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 Temp.	°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 Constant 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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