

DuPont[™] Oasis[®] 300TWN525

Composite Film

Description

Oasis[®] 300TWN525 is a heat sealable composite film that is made using DuPont polyimide film and DuPont fluoropolymer. Oasis[®] 300TWN525 has excellent electrical, thermal durability, chemical resistance, and radiation resistance properties. Processing of this material can be done on most wire taping equipment capable of taping standard polyimide films. The typical properties of Oasis[®] 300TWN525 are listed in **Table 1**.

Packaging

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

Figure 1. Oasis[®] 300TWN525 Heat Sealable Composite Film (material cross-section)

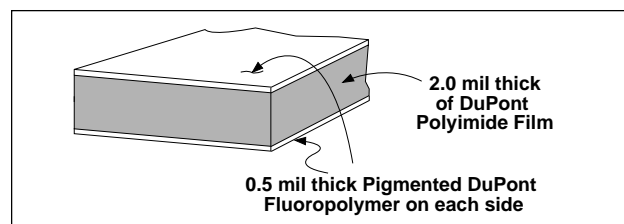


Table 1
Typical Properties of Oasis[®] 300TWN525

Property	Unit	Typical Value	Test Method
Thickness	mil	3.00	ASTM D-374, Method D
Density	g/cc	1.68	ASTM D-1004-66-1981
Tensile Strength	kpsi	21.0	ASTM D-882-83, Method A
Tensile Modulus	kpsi	270.0	ASTM D-882-83, Method A
Elongation	%	65	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	4200	ASTM D-149-81
Dissipation Factor at 1 kHz	—	0.01	ASTM D-150-81
Dielectric Constant at 1 kHz	—	2.85	ASTM D-150-81
Volume Resistivity	ohm-cm	10 ¹⁷	ASTM D-257-78 (1983)
Yield	ft ² /lb	38.2	DuPont 5217

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Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102.

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