



DuPont™ Kapton® XP

Insulation Substrate

General Description

Kapton® type XP provides a type H film coated on one or both sides with a proprietary fluorocarbon resin which provides excellent mechanical strength and adhesive properties at elevated temperatures.

In addition, high level bond strengths of XP to copper, itself or other materials are maintained at elevated temperatures. The four graphs included with this bulletin compare retention of bond strength of type FN and type XP from room temperature to 200°C.

Kapton® XP exhibits the same chemical stability, electrical properties, and mechanical strengths in high and low temperature environments as has been demonstrated with Kapton® FN.

Availability

Both 2 mil Kapton® XP (919) and 1.5 mil XP (019) are in inventory. Other constructions can be made available as market applications and needs develop.

Substrate preparation and electrical, mechanical and chemical data can be found in the Kapton® Summary of Properties booklet (EI-10142).

Property	Unit	150XP019	200XP919	Test Method
Thickness	mil	1.5	2.0	ASTM D374
	µm	38	50	
Tensile Strength	kpsi	29	24	ASTM D882
	MPa	200	165	
Elongation	%	93	95	ASTM D882
Dielectric Strength	V/mil	4400	4800	ASTM D149
	kV/mm	173	189	
Yield	ft ² /lb	82.4	57.4	-
	m ² /kg	16.9	11.8	

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Figure 1. Kapton® XP vs. Kapton® FN

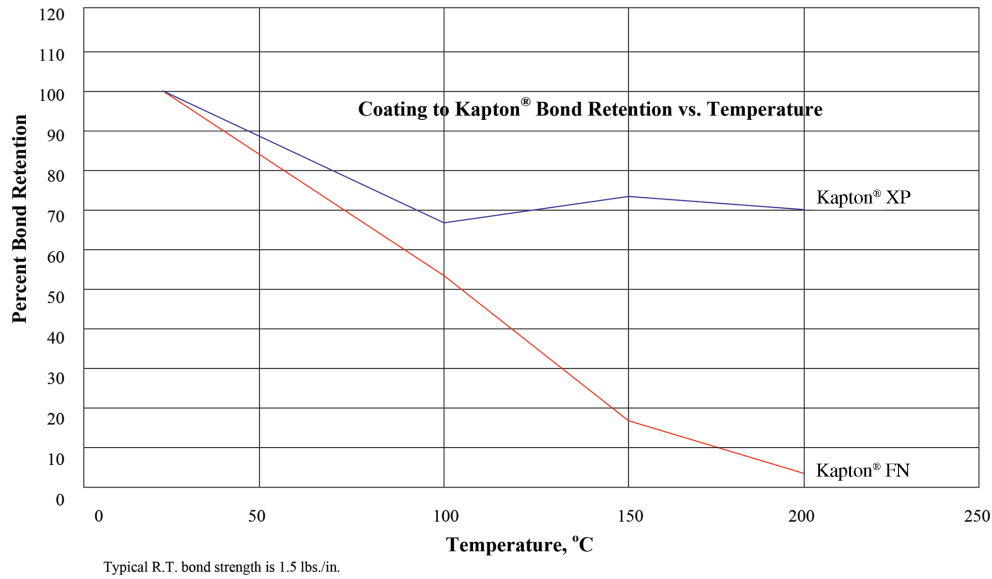
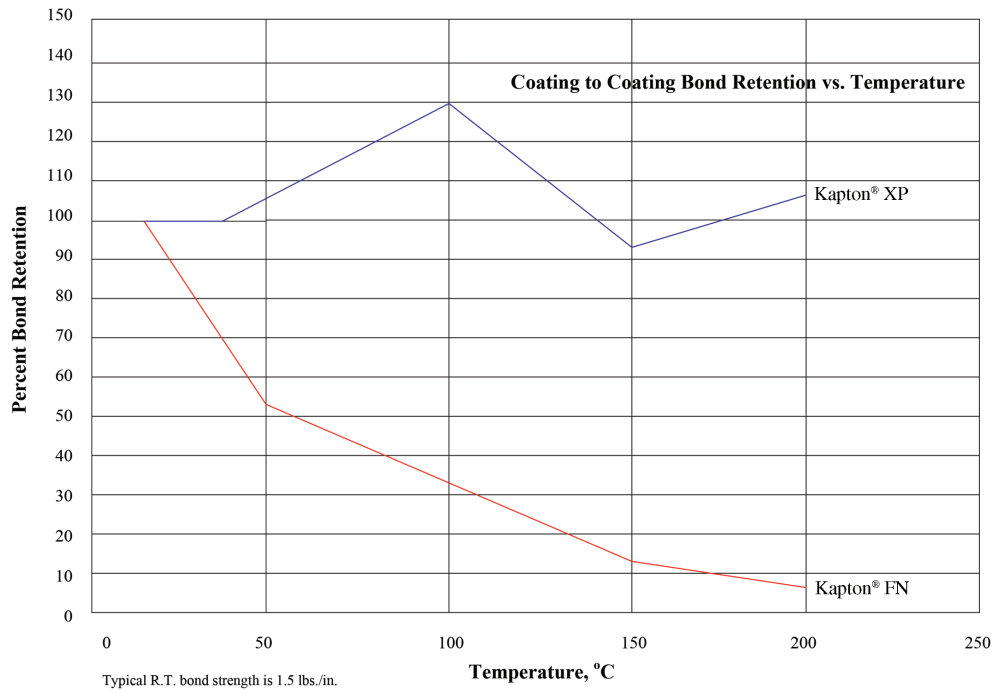


Figure 2. Kapton® XP vs. Kapton® FN



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Figure 3. Kapton® XP vs. Kapton® FN

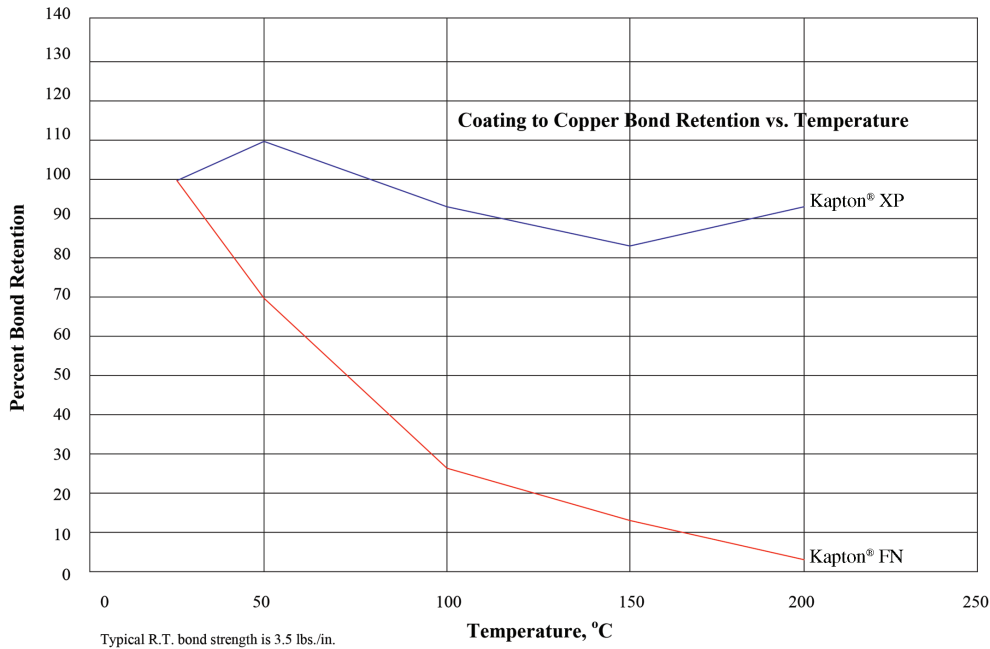
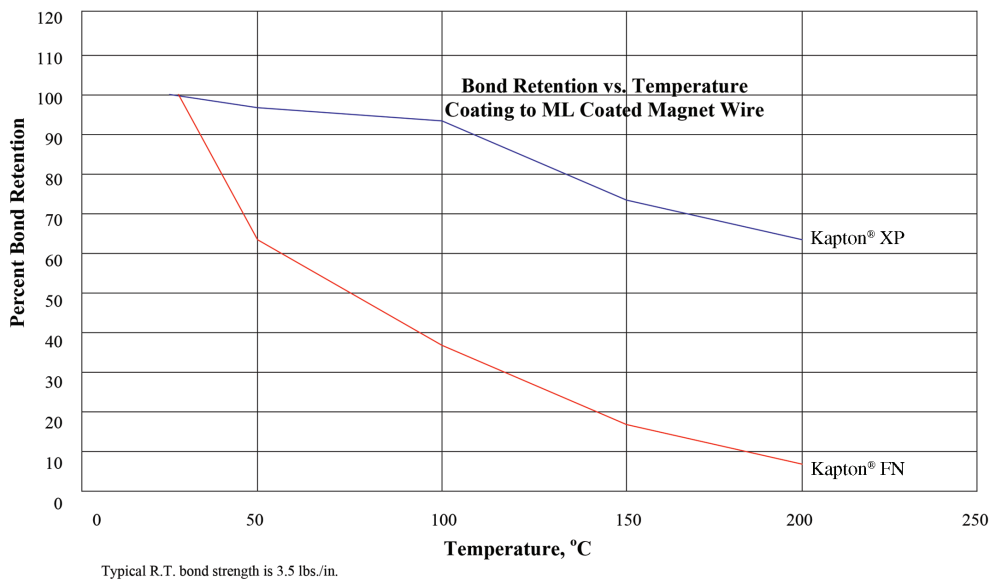


Figure 4. Kapton® XP vs. Kapton® FN



For more information on DuPont™ Kapton® polyimide films or other DuPont products, please visit our website.

kapton.com

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