



**celplast**  
metallized products



## **CERAMIS® CPT-019**

### **SILICON OXIDE-COATED HB MATTE PET**

#### **Typical Values**

CPT-019 is a SiOx -coated PET film with a combination of excellent barrier properties and matte appearance. This grade is suitable for transparent high barrier packaging applications  
SiOx Layer Thickness: ~ 50 nm

Properties	Typical Value		Units	Test Method
<b>Yield</b>	42,200		in <sup>2</sup> /lb	
<b>Thickness</b>	0.48 12		Mil µm	
<b>Tensile Strength</b>	29,000 27,550	MD TD	Psi	ASTM D882
<b>Elongation at break</b>	100 110	MD TD	%	ASTM D882
<b>Heat Shrinkage</b>	2.0 1.0	MD TD	%	DIN 40634 300°F, 30 min
<b>Optical Transparency / Haze</b>	87 / 47		%	ASTM D1003-92
<b>Gloss 60° angle</b>	42-50	Matte surface	-	ASTM D523
	110	Standard surface	-	ASTM D523
<b>Coefficient of friction (static)</b>	0.70	SiOx / SiOx	-	DIN EN ISO 8295
	0.40	PET/PET	-	DIN EN ISO 8295
<b>Water Vapor Transmission Rate</b>	0.10	Unlaminated	g/100in <sup>2</sup> /24 hr.	ASTM F1249-90 (73.4° F, 85% RH)
	0.019	Laminated to 3.0 mil CPP	g/100in <sup>2</sup> /24 hr.	ASTM F1249-90 (73.4° F, 85% RH)
<b>Oxygen Transmission Rate</b>	0.16	Unlaminated	g/100in <sup>2</sup> /24 hr.	ASTM F1249-90 (73.4° F, 85% RH)
	0.032	Laminated to 3.0 mil CPP	cc/100in <sup>2</sup> /24 hr.	ASTM D-3985-2005 (73.4° F, 50% RH)

This product is in compliance with the regulation FDA 21 CFR 177.1630. When laminated to an approved substrate, the laminate is compliant with the requirements of EU directive 2002/72/EC.

All values are with a ± 10% tolerance

MD = machine direction, TD = transverse direction

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