

## MOISTURE BARRIER BAGS

20-08x-xxxx, 20-211-xxxx, 20-07x-xxxx

Heat sealable, electrostatic protective, moisture protective for ESD safe packaging

Standard compliance:

IEC 61340-5-  
2002/95/EC (ROHS directives)  
IPC/JEDEC J-STD-033  
MIL-PRF-81705D  
EIA-583, EIA-541, EIA-625

**Film construction 20-08x-xxxx:**

Static dissipative coating
Vacuum-metalized polyester layer
Vacuum-metalized polyester layer
Polyethylene layer
Static dissipative coating

**Film construction 20-211-xxxx:**

Static dissipative coating
Polyester
Aluminium foil
Nylon
Polyethylene
Static dissipative coating

**Film construction 20-07x-xxxx:**

Static dissipative coating
Nylon
Aluminium foil
Polyethylene layer
Static dissipative coating

	<b>Material and features 20-08x-xxxx 90µ</b>	<b>Material and features 20-211-xxxx 106µ</b>	<b>Material and features 20-07x-xxxx 152µ</b>
<b>Thickness</b>	90µm (3.6 mil. Inch) +/- 10%	106µ (4.2 mil. Inch) +/- 10%	152µ (6.0 mil. Inch) +/- 10%
<b>Tensile strength</b>	MD > 9500 psi / TD > 9500 psi (ASTM D-882-91, method A)	MD > 7000 psi / TD > 7000 psi (ASTM D-882-91, method A)	MD > 4000 psi / TD > 4000 psi (ASTM D-882-91, method A)
<b>Tear strength</b>	MD > 4 lbs / TD > 3.8 lbs (ASTM-D-1004-94)	MD > 3.0 lbs / TD > 4.0 lbs (ASTM-D-1004-94)	MD > 4 lbs / TD > 4.0 lbs (ASTM-D-1004-94)
<b>Puncture strength</b>	> 20 lbs (FTMS 101C, Method 2065.1)	> 25 lbs (FTMS 101C, Method 2065.1)	> 16 lbs (FTMS 101C, Method 2065.1)
<b>MVTR</b>	< 0.02 gram/100 in <sup>2</sup> / 24H (ASTM-F1249)	< 0.0006 gram/100 in <sup>2</sup> / 24H (ASTM-F1249)	< 0.0006 gram/100 in <sup>2</sup> / 24H (ASTM-F1249)
<b>Heat seal strength</b>	> 15 lbs/inch (ASTM D-882-91)	> 16 lbs/inch (ASTM D-882-91)	> 12 lbs/inch (ASTM D-882-91)
<b>Heat sealable</b>	250/375°F; 0.8 to 3.5 sec. 30 to 70 psi	250/375°F; 0.5 to 3.5 sec. 30 to 70 psi	250/375°F; 0.8 to 3.5 sec. 30 to 70 psi

	<b>Electrical properties 20-08x-xxxx 90µ</b>	<b>Electrical properties 20-211-xxxx 106µ</b>	<b>Electrical properties 20-07x-xxxx 152µ</b>
<b>Surface resistance</b>	< 10e12 Ohm (both surface) IEC 61340-2-3	< 10e12 Ohm (both surface) IEC 61340-2-3	< 10e11 Ohm (both surface) IEC 61340-2-3
<b>Static shielding</b>	< 10nJ (ESD S11.31)	< 10nJ (ESD S11.31)	< 10nJ (ESD S11.31)
<b>Static shielding</b>	Capacitive probe < 10 V (EIA 541)	Capacitive probe < 10 V (EIA 541)	Capacitive probe < 20 V (EIA 541)

**Bag specifications:**

All bags dimensions are internal dimensions. The 1<sup>st</sup> dimension is the opening, the 2<sup>nd</sup> is the height.

Dimensions: from 20x30mm to 1000x1500mm

Seal sizes: ≤ 12mm

Printing: Standard with ESD requirements, approx. 50x50mm,  
Yellow. Date code (YYMM).

**Options:** Customized sizes & customized printing on request.

