



The following table denotes specifications for the respective nominal basis weight(s) of our Liner gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner		
			100 gsm SAP: 4721202050NAT DF (Legacy: 5580) (Old WY Code: 5300-20.5, 5700-20.5, 5350-20.5)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>95.00</b>	100.00	<b>105.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>1.60</b>	---	---
Mullen (Model A)	kPa	IP-807	<b>296.00</b>	324.00	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---



The following table denotes specifications for the respective nominal basis weight(s) of our Liner gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner		
			110 gsm SAP: 4721202250NAT DF (Legacy: 5570) (Old WY Code: 5300-22.5, 5700-22.5)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>104.00</b>	110.00	<b>115.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>1.70</b>	---	---
Mullen (Model A)	kPa	IP-807	<b>324.00</b>	359.00	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---



The following table denotes specifications for the respective nominal basis weight(s) of our EuroMart gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	EuroMart		
			125 gsm SAP: 4582402560NAT DF (Legacy: 5518) (Old WY Code: )		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>119.00</b>	125.00	<b>131.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>2.40</b>	2.60	---
Mullen (Model A)	kPa	IP-807	<b>455.00</b>	517.00	---
Cobb Size (1-minute) - Prem	g/m <sup>2</sup>	IP-441	<b>20.00</b>	---	<b>45.00</b>
Cobb Size (1-minute) - Base	g/m <sup>2</sup>	IP-441	<b>20.00</b>	---	<b>55.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>25.00</b>	---	---
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---



The following table denotes specifications for the respective nominal basis weight(s) of our Liner gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner		
			127 gsm SAP: 4721202600NAT DF (Legacy: 5102) (Old WY Code: 5300-26, 5700-26, 5309-26)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>121.00</b>	127.00	<b>133.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>1.90</b>	---	---
Mullen (Model A)	kPa	IP-807	<b>386.00</b>	434.00	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---



The following table denotes specifications for the respective nominal basis weight(s) of our Liner HP gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner HP		
			171 gsm SAP: 1271703500NAT DF (Legacy: 5225) (Old WY Code: 5624-35, 5629-35, 5617-35, 5724-35)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>162.00</b>	171.00	<b>180.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>3.20</b>	3.50	---
Mullen (Model A)	kPa	IP-807	<b>434.00</b>	---	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---



The following table denotes specifications for the respective nominal basis weight(s) of our Liner gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner		
			200 gsm SAP: 4721204100NAT DF (Legacy: 5117) (Old WY Code: 5700-41, 5300-41)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>190.00</b>	200.00	<b>210.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>3.00</b>	---	---
Mullen (Model A)	kPa	IP-807	<b>600.00</b>	662.00	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---

[\[Search\]](#) [\[Home\]](#) [\[IPWeb\]](#)  
[\[English Units\]](#) [\[Printable\]](#)

# INTERNATIONAL PAPER

CONTAINERBOARD  
 MANUFACTURING SPECIFICATION

NAME: Liner - 250 gsm  
 NEW PMP: 4721205120NAT DF  
 OLD GRADE CODE: 5152  
 PBS CODE:  
 SAP MFG: 100041600  
 SAP SALE: 100041601  
 OLD WY CODE: 5700-51.2

GRADE PROPERTY	UNITS	SPECIFICATIONS			TEST PROCEDURE
		NOMINAL	MIN.	MAX.	
Cond Weight (@ 7.5% H2O)	g/m <sup>2</sup>	249	236	262	IP Computer CW
Moisture	%	7.7	5.5	9	IP Computer M
STFI CD (SCT)	kN/m		3.6		IP-826
Mullen (Model A)	kPa	772	696		IP-807
Cobb Size (2-min) - Prem	g/m <sup>2</sup>		25	70	IP-441
Cobb Size (2-min) - Base	g/m <sup>2</sup>		25	75	IP-441
Cobb Size (30-min) - Prem	g/m <sup>2</sup>			155	IP-441
Roll Hardness		40			IP-834
Gurley Porosity	sec/100 ml		12	200	IP-460
Angle Of Slide	degrees		18		IP-815
Scuff - Prem (Taber)	mg/1000 rev			450	IP-476
Emveco Printability				350	IP-575
ZDT Bond	kPa		234		IP-541

Revised Date: 1/10/2011

Valid On: 11/29/11



The following table denotes specifications for the respective nominal basis weight(s) of our Liner HP gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner HP		
			275 gsm SAP: 1271705600NAT DF (Legacy: 5260) (Old WY Code: 5624-56, 5629-56, 5617-56, 5724-56)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>260.00</b>	273.00	<b>287.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>5.00</b>	5.50	---
Mullen (Model A)	kPa	IP-807	<b>655.00</b>	---	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---





The following table denotes specifications for the respective nominal basis weight(s) of our Liner gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner		
			300 gsm SAP: 4721206140NAT DF (Legacy: 5165) (Old WY Code: 5700-61.4, 5300-61.4)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>285.00</b>	300.00	<b>315.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>5.50</b>	7.70	<b>9.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>4.40</b>	---	---
Mullen (Model A)	kPa	IP-807	<b>800.00</b>	883.00	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---



The following table denotes specifications for the respective nominal basis weight(s) of our Liner gradeline:

CHARACTERISTIC	UNITS	TEST METHOD	Liner		
			337 gsm SAP: 4721206900NAT DF (Legacy: 5170) (Old WY Code: 5300-69, 5310-69, 5317-69, 5700-69, 5312-69, 5309-69)		
			MIN	NOM	MAX
Basis Weight Cond To 7.5% H2O	g/m <sup>2</sup>	IP Computer CW	<b>320.00</b>	337.00	<b>353.00</b>
Moisture (Roll Average)	%	IP Computer M	<b>6.00</b>	8.20	<b>10.00</b>
STFI CD (SCT)	kN/m	IP-826	<b>4.90</b>	---	---
Mullen (Model A)	kPa	IP-807	<b>855.00</b>	951.00	---
Cobb Size (2-minutes) - Prem	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>70.00</b>
Cobb Size (2-minutes) - Base	g/m <sup>2</sup>	IP-441	<b>25.00</b>	---	<b>75.00</b>
Cobb Size (30-minutes) - Prem	g/m <sup>2</sup>	IP-441	---	---	<b>155.00</b>
Roll Hardness (individual read)		IP-834	---	40.00	---
Gurley Porosity	sec/100 ml	IP-460	<b>12.00</b>	---	<b>200.00</b>
Angle Of Slide	degrees	IP-815	<b>18.00</b>	---	---
Scuff - Prem (Taber)	mg/1000 rev	IP-476	---	---	<b>450.00</b>
Emveco Printability		IP Emveco	---	---	<b>350.00</b>
ZDT Bond	kPa	IP-541	<b>234.00</b>	---	---