



## NEO STAR PAPER PRODUCT SPEC.

SPEC NUMBER	P&P-NEO★GLOSS-01		RE : 0										
MOORIM P&P CO., LTD		Neo★Gloss											
Item	Unit	78gsm	80gsm	85gsm	89gsm	90gsm	95gsm	100gsm	104gsm	105gsm	110gsm	113gsm	
Basis weight	g/m <sup>2</sup>	78 ± 4%	80 ± 4%	85 ± 4%	89 ± 4%	90 ± 4%	95 ± 4%	100 ± 4%	104 ± 4%	105 ± 4%	110 ± 4%	113 ± 4%	
Thickness	μm	63 ± 3	64 ± 3	66 ± 3	69 ± 3	70 ± 3	74 ± 3	80 ± 3	82 ± 3	83 ± 3	88 ± 3	90 ± 3	
Smoothness	sec	3,500 + UP - 500	3,500 + UP - 500	3,500 + UP - 500	5,000 + UP - 500								
Roughness	μm	0.8 ± 0.3	0.8 ± 0.3	0.8 ± 0.3	0.8 ± 0.3	0.8 ± 0.3	0.8 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	
Paper Gloss	%	73 ± 3	73 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	
Brightness	%	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	
Opacity	%	90 ± 2	90 ± 2	91 ± 2	92 ± 2	92 ± 2	93 ± 2	93 ± 2	94 ± 2	94 ± 2	95 ± 2	95 ± 2	
Stiffness(MD/CD)	mN	0.35/0.60 ↑	0.40/0.70 ↑	0.50/0.80 ↑	0.55/0.85 ↑	0.55/0.85 ↑	0.60/1.10 ↑	0.70/1.20 ↑	0.75/1.35 ↑	0.75/1.35 ↑	0.86/1.50 ↑	1.02/1.80 ↑	
Bulk	cm <sup>3</sup> /g	0.81	0.80	0.78	0.78	0.78	0.78	0.80	0.79	0.79	0.80	0.80	

QAP-02-01-3-02(3)

MOORIM P&P CO., LTD

QUALITY ASSURANCE DEPARTMENT



## NEO STAR PAPER PRODUCT SPEC.

SPEC NUMBER	P&P-NEO★GLOSS-02	RE : 0	Neo★Gloss										
MOORIM P&P CO., LTD													
Item	Unit	115gsm	118gsm	120gsm	125gsm	128gsm	130gsm	135gsm	137gsm	140gsm	145gsm	148gsm	
Basis weight	g/m <sup>2</sup>	115 ± 4%	118 ± 4%	120 ± 4%	125 ± 4%	128 ± 4%	130 ± 4%	135 ± 4%	137 ± 4%	140 ± 4%	145 ± 4%	148 ± 4%	
Thickness	μm	92 ± 3	94 ± 3	96 ± 3	98 ± 3	100 ± 3	101 ± 3	111 ± 3	112 ± 3	114 ± 3	121 ± 3	123 ± 3	
Smoothness	sec	5,000 + UP - 500											
Roughness	μm	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	
Paper Gloss	%	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	
Brightness	%	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2	
Opacity	%	95 ± 2	96 ± 2	96 ± 2	97 ± 2	97 ± 2	97 ± 2	97 ± 2	97 ± 2	97 ± 2	97 ± 2	98 ± 2	
Stiffness(MD/CD)	mN	1.02/1.80 ↑	1.30/2.40 ↑	1.30/2.40 ↑	1.42/2.50 ↑	1.42/2.50 ↑	1.42/2.50 ↑	-	-	-	-	-	
Bulk	cm <sup>3</sup> /g	0.80	0.77	0.80	0.78	0.78	0.78	0.82	0.82	0.81	0.83	0.83	

QAP-02-01-3-02(3)

MOORIM P&P CO., LTD

QUALITY ASSURANCE DEPARTMENT



## NEO STAR PAPER PRODUCT SPEC.

SPEC NUMBER	P&P-NEO★GLOSS-03	RE : 0	Neo★Gloss								
MOORIM P&P CO., LTD		150gsm	157gsm	160gsm	170gsm	180gsm					
Basis weight	g/m <sup>2</sup>	150 ± 4%	157 ± 4%	160 ± 4%	170 ± 4%	180 ± 4%					
Thickness	μm	125 ± 3	129 ± 3	131 ± 3	143 ± 3	152 ± 3					
Smoothness	sec	5,000 + UP - 500									
Roughness	μm	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3					
Paper Gloss	%	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3					
Brightness	%	92 ± 2	92 ± 2	92 ± 2	92 ± 2	92 ± 2					
Opacity	%	98 ± 2	98 ± 2	98 ± 2	98 ± 2	98 ± 2					
		-									
Bulk	cm <sup>3</sup> /g	0.83	0.82	0.82	0.84	0.84					

QAP-02-01-3-02(3)

MOORIM P&P CO., LTD

QUALITY ASSURANCE DEPARTMENT