

Test Report Number	K19-10778	Test Method Used	Refer to test result
Received date	2019. 04. 29	Issued date	2019. 05. 03
Applicant	MK SOLAR CO., LTD		

Sample Name	WOOD PELLET(0122634)
Sample Number	-
Sampling No	CUK-MKYD-PWFOB1908(35LOT)
Supplier	
Country of Origin	THAILAND
Manufacturer	PT PARAWOOD CO., LTD
Analyzed date	2019. 04. 29 ~ 05. 03
Description	SAMPLING DATE: 2019. 04. 22 B/L NO. UANPEN190024



Sample picture

Tested by

Kang Ki-hyo

Reviewed by

Oh, Ma-hyeon

*This laboratory is not accredited for the test result marked.

※ The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

Certificated by President of DARI
Daeduck Analytical Research Institute



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TEST RESULT

Item	Base	Unit	Determined value	Limit of Range	Test method
Diameter	-	mm	8	6 ~ 25	Notification No. 2018-8 by Korea Forest Research Institute
Length	-	mm	22	≤ 32	
Unit Volume Mass	-	kg/m ³	670	≥ 500	
Total Moisture	ar	% wt	6.5	≤ 15	
Gross Calorific Value	d	kcal/kg	4 620	≥ 4 300	
Gross Calorific Value	ad	kcal/kg	4 430	≥ 4 200	
Gross Calorific Value	ar	kcal/kg	4 320	≥ 4 100	
Net Calorific Value	ar	kcal/kg	3 980	≥ 3 900	
Ash	ad	% wt	1.7	≤ 6.0	
Fines	-	% wt	0.5	< 2.0	
Durability	-	% wt	99.2	≥ 95	
Chlorine	ad	% wt	< 0.01	≤ 0.05	
Sulphur	ad	% wt	0.04	≤ 0.05	
Nitrogen	ad	% wt	0.2	≤ 1.0	
Ash Fusion Temperature, IDT (Reducing Atmosphere)	-	℃	> 1 500	≥ 1 150	
Other Substance*	-	% wt	< 2.0	< 2.0	
As (Arsenic)	d	mg/kg	< 0.5	≤ 1.0	
Cd (Cadmium)	d	mg/kg	0.1	≤ 0.5	
Cr (Chromium)	d	mg/kg	< 1	≤ 10	
Cu (Copper)	d	mg/kg	2	≤ 10	
Pb (Lead)	d	mg/kg	2	≤ 10	
Hg (Mercury)	d	mg/kg	< 0.01	≤ 0.05	
Ni (Nickel)	d	mg/kg	2	≤ 10	
Zn (Zinc)	d	mg/kg	16	≤ 100	
Fe (Iron)*	d	mg/kg	124	≤ 800	
DNA Test (Rice Husk)*	-	-	Negative	Negative	Genetic Determination
Particle Size, < 3.15 mm	-	% wt	99.6	≥ 95	ISO 17830:2016
Particle Size, < 2.0 mm	-	% wt	98.7	≥ 90	
Particle Size, < 1.0 mm	-	% wt	81.7	≥ 50	

Remark

ar: As received basis, ad: Air dried basis, d: Dried basis

-END-