

LABOSPORT

TEST REPORT / 检测报告

UV Resistance Test on Rubber Granules / 橡胶颗粒的抗 UV 老化测试

EPDM RUBBER GRANULES / 三元乙丙橡胶颗粒

NANJING FEELING RUBBER & PLASTIC PRODUCES CO., LTD

南京飞能橡塑制品有限公司



TEST REPORT N°: LSA-R23165-B1

Guangzhou, 2024.03.22

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本报告结果仅对测试的样品负责。



GUANGZHOU LABOSPORT CO., LTD.

1/F, Building C, No.1, Huan Bao 3rd Road, Xintang Town, Zengcheng District, Guangzhou, Guangdong, China
Office: +86 20 81900714 Email: asia@labosport.com

www.labosport.com

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1. IDENTIFICATION / 产品信息

Client information / 委托方信息

Company 公司名称	Nanjing Feeling Rubber & Plastic Produces Co., Ltd 南京飞能橡塑制品有限公司
Address 公司地址	No.11, Lanhua Road, Qiaolin Industry Park, Pukou District, Nanjing City 江苏省南京市浦口区桥林工业园兰花路 11 号
Contact 联系方式	ICY LIU, Tel:+86-025-58933771, E-mail: admin@njfeeling.com

Specimen information / 样品信息

Commercial name 产品名称	EPDM RUBBER GRANULES / 三元乙丙橡胶颗粒
Colour 颜色	Red 红色
Type 种类	EPDM
Receipt number 样品编号	S23165

Above information provided and confirmed by the client. 以上信息由委托方提供并确认。

Order & Test Information / 委托&测试信息

Date of order 委托日期	2023.03.28
Specimen taken by 样品寄送	Nanjing Feeling Rubber & Plastic Produces Co., Ltd 南京飞能橡塑制品有限公司
Date of reception 收样日期	2023.03.30
Date of tests 测试日期	2023.04.03-2024.03.20



2. TEST RESULTS / 测试结果

Rubber granules characterisation / 颗粒参数

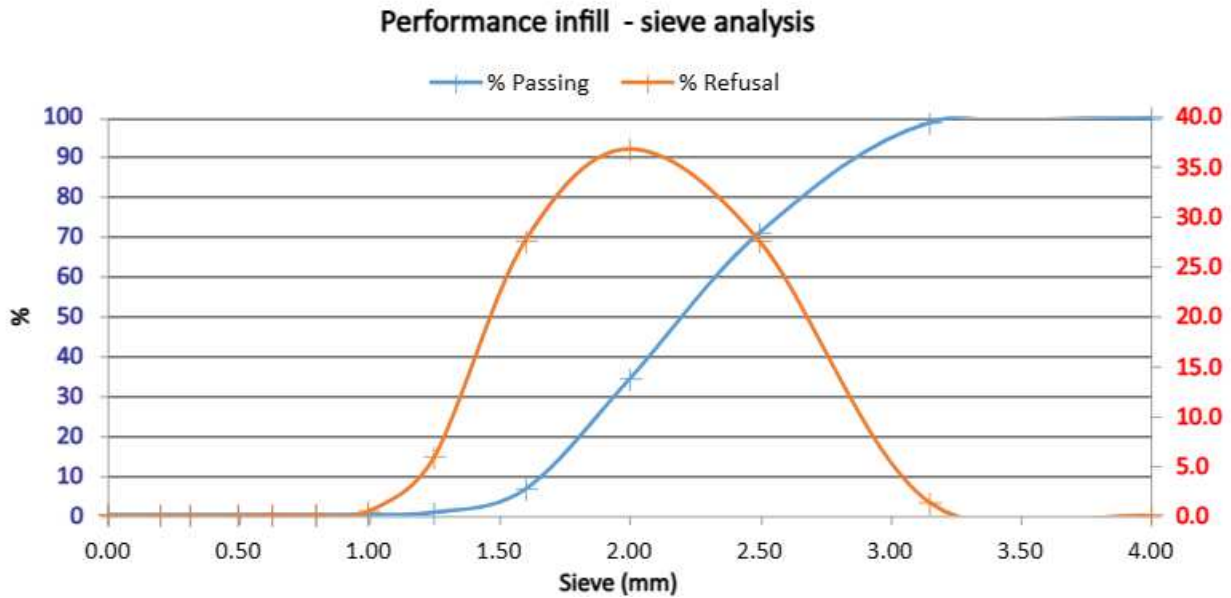
Parameters 参数	Units 单位	Test method 测试方法	Result 结果	
Particle Shape 颗粒形状	(-)	EN 14955	A1	
Bulk density 密度	(g/cm ³)	EN 1097-3	0.59	0.60
			Mean 平均值	
Particle size 颗粒尺寸	(mm)	EN 933-1	d	1.6
			D	3.15
Color 颜色	(-)	Visual 目视	Red 红色	
Thermogravimetric Analysis TGA 热重分析 TGA	(%)	FIFA TM 11**	Charge 无机物含量	57.0
			Organic 有机物含量	43.0
			*Mass loss between beginning of second peak (around 400 °C) and 650°C *弹性体	29.5

* as defined in FIFA manual 弹性体含量参考 FIFA 定义;

**This test was carried out by SYPAC (Systèmes Produits et Analyses Chimiques, a company from Labosport Group, COFRAC N° 1-1202 rév. 16) and is not within the CNAS approval scope of Guangzhou Labosport 该测试由 SYPAC (位于法国, 为 Labosport 集团内公司, COFRAC 编号 N° 1-1202 rév. 16) 完成, 且不在广州 Labosport 的 CNAS 认可范围内。

Particle size d/D 颗粒粒径分布 d/D

Sieve (mm)	0.00	0.20	0.315	0.50	0.63	0.80	1.00	1.25	1.60	2.00	2.50	3.15	4.00
Refusal (g)	200.9	200.9	200.9	200.9	200.9	200.8	200.6	199.7	187.9	132.2	58.1	2.7	0.0
Passing (%)	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.8	6.7	34.4	71.2	98.7	100.0
Refusal (%)	0.0	0.0	0.0	0.0	0.1	0.1	0.5	5.9	27.7	36.8	27.5	1.3	0.0



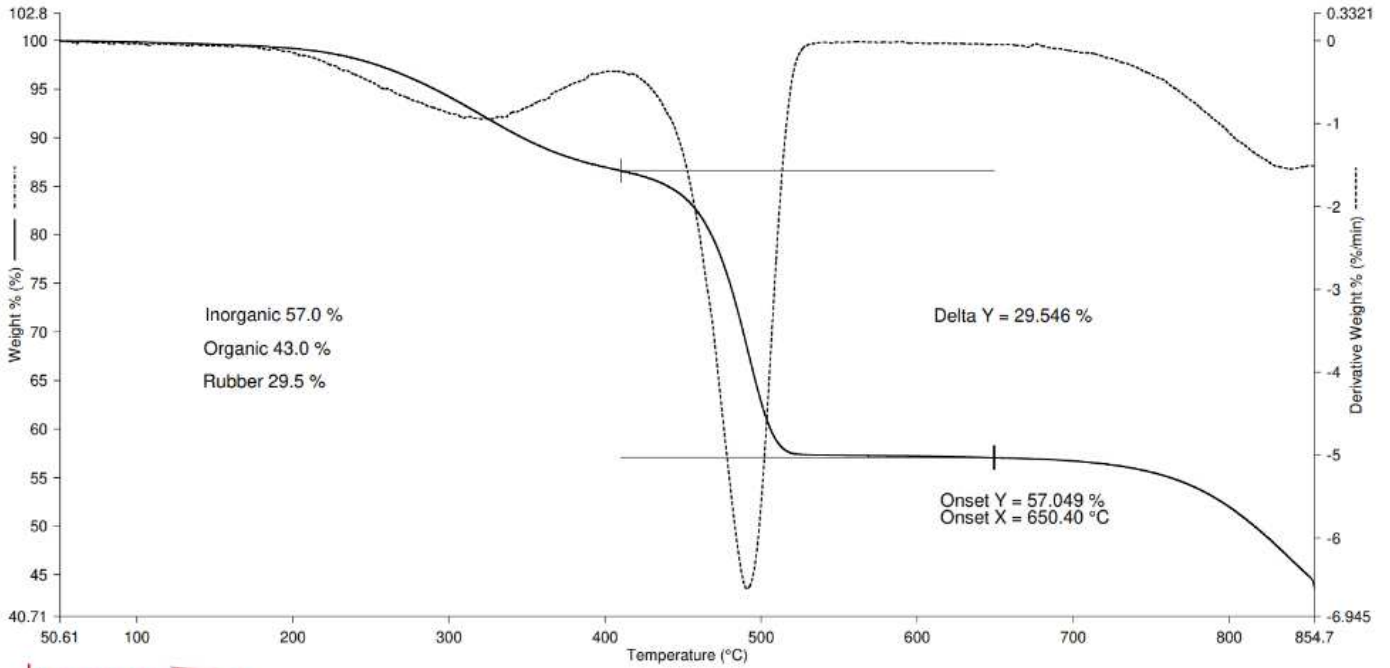
Definitions 定义:

d: largest sieve < 10% / 通过的最小的筛网粒径总量 < 10%

D: smallest sieve > 90% / 通过的最大筛网粒径总量 > 90%

Thermogravimetric Analysis TGA / 热重分析 TGA

Data Collected: 04/09/2023 14:21:50	20230830 TGA: 23165-Feeling-UVA 5000h Red(3459-04).t6d
Operator ID: LGO	Weight % (%) : Steps: 1-3
Sample ID: 20230830 TGA	20230830 TGA: 23165-Feeling-UVA 5000h Red(3459-04).t6d
Sample Weight: 64.604 mg	Derivative Weight % (%/min) (Smoothed) : Steps: 1-3
Initial Purge Gas: Argon	
Comment: PerkinElmer TGA4000 - Serial number 522A2092805 - calibration : alumel / perkalloy / iron	



04/09/2023 14:24:19

1) Hold for 1.0 min at 50.00°C	3) Hold for 1.0 min at 850.00°C
2) Heat from 50.00°C to 850.00°C at 10.00°C/min	





AGEING / 气候老化

UVA (340 nm) ageing (15360 ± 125) kJ/m²/nm- (Approximately 8000 Hours)

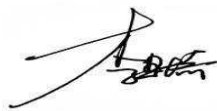
Test Method 测试方法: The exposure cycle shall comprise (240 ± 4) min of dry UV exposure at a black-panel temperature of (55 ± 3) °C, followed by (120 ± 2) min of condensation exposure, without radiation, at a black-panel temperature of (45 ± 3) °C. During each cycle an interval of at least 120 min per interval to ensure attainment of equilibrium.

Parameters 参数	Units 单位	Test method 测试方法	Result
Color 颜色	(-)	Visual 目视	Red 红色
Grey scale 色牢度	(-)	EN 20105-A02	3
Visual aspect 外观	(N)	Visual 目视	Same shape 相同形状 No agglomeration 无结块 No cracking 无开裂

View of the new product 老化前的颗粒	View after ageing 老化后的颗粒
	

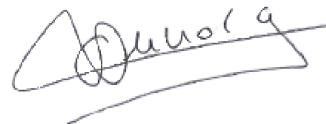
Guangzhou, 2024.03.22

REPORTED BY:



NIKI LI
LABORATORY OFFICER

APPROVED BY:



OLIVIER DUCROCQ
MANAGING DIRECTOR

~~~~~THE END~~~~~