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中国认可
国际互认
检测
TESTING
CNAS L1135

No. TL26080331

检 测 报 告

TEST REPORT

样 品 名 称: NAME OF SAMPLE	聚天门冬氨酸酯聚脲涂料（天冬聚脲） Polyaspartic Polyurea Coating N100, N200, N300, N400, N500, N600, N700
委 托 单 位: CLIENT	深圳市高盾新材料有限公司 Shenzhen Gaodun New Material Co., Ltd.
检 测 类 别: CLASSIFICATION OF TEST	委托检测 Commission

化学工业合成材料老化质量监督检验中心

The Quality Supervision and Inspection Center of Synthetic Material Ageing of Chemical Industry

化学工业合成材料老化质量监督检验中心 检验检测专用章

注意事项 Notes

1. 检测报告未加盖检测单位“检验检测专用章”无效。
The test report is invalid without the stamp of the “Special Seal for Inspection and Testing”.

2. 复制检测报告未重新加盖检测单位“检验检测专用章”无效。
The copy of the test report is invalid without being re-stamped of the “Special Seal for Inspection and Testing”.

3. 检测报告无主检、审核、批准人签章无效。
The test report is invalid without the signatures of Principal Tester, Supervisor, and Approver.

4. 检测报告涂改无效。
Any alteration to the test report renders it invalid.

5. 对检测报告若有异议，应于收到报告之日起十五日内向检测单位提出，逾期不予受理。
Any objection to the test report must be raised with the testing unit within 15 days from the date of receipt. Objections submitted after this period will not be accepted.

6. 送检委托检测结果，仅对所送样品有效。送样委托检测的样品及相关信息均由委托方提供，本中心不对其真实性及完整性负责。
The results of the commissioned test are valid only for the samples tested. The samples and any related information provided for testing are supplied by the client. This testing center accepts no responsibility for the authenticity or completeness of the samples.

7. 无CMA标识报告中的数据和结果，仅作为科研、教学或内部质量控制之用。中英文报告内容以中文为准。
The data and results in reports without the CMA mark are for scientific research, teaching, or internal quality control purposes only. In case of any discrepancy between the Chinese and English versions of the report, the Chinese version shall prevail.

8. 报告真伪查询：二维码查询，手机扫描本报告封面二维码，核对真伪。如需查询完整报告内容，请联系本实验室，查询电话 020-32373900。
Report Authenticity Verification: QR Code Verification. Scan the QR code on the cover of this report with your mobile device to verify its authenticity. To inquire about the full content of the report, please contact our laboratory at the verification telephone number: 020-32373900.

实验室简介 Lab Introduction

化学工业合成材料老化质量监督检验中心法人单位是广州合成材料研究院有限公司（广州老化所），简称“广化测评”。本实验室是CNAS认可和国家级CMA检验检测机构，是国家认监委指定的溶剂型木器涂料和水性内墙涂料CCC强制性产品认证检测机构，也是CQC、CQM、HQC等认证机构签约检测实验室。本实验室认可的检测能力涵盖塑料及防水卷材、橡胶及制品、胶黏剂、纺织品及皮革、复合材料、涂料、化工产品、电子电工产品、化学品危险性分类鉴定、货物运输条件鉴定和粉尘爆炸性检测等。

The legal entity of the Quality Supervision and Inspection Center of Synthetic Material Aging of the Chemical Industry is Guangzhou Research Institute of Synthetic Materials Co., Ltd. (Guangzhou Aging Research Institute), abbreviated as “Guanghua Testing and Evaluation”. This laboratory is an inspection and testing institution accredited by CNAS and holding national-level CMA qualification. It is a testing body designated by the Certification and Accreditation Administration of China (CNCA) for CCC mandatory product certification of solvent-based wood coatings and water-based interior wall coatings. It is also a contracted testing laboratory for certification bodies including CQC, CQM, and HQC. The laboratory’s accredited testing capabilities cover fields such as plastics and waterproof membranes, rubbers and products, adhesives, textiles and leather, composite materials, coatings, chemical products, electrical and electronic products, hazard classification and identification of chemicals, identification of goods transport conditions, as well as dust explosibility testing, etc.

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The Quality Supervision and Inspection Center of Synthetic Material Ageing of Chemical Industry

检 测 报 告 Test Report

No. TL26080331

样品名称 Name of Sample	聚天门冬氨酸酯聚脲涂料（天冬聚脲）Polyaspartic Polyurea Coating N100，N200，N300，N400，N500，N600，N700	样品编号 Sample Number	T26060219
委托单位 Client	深圳市高盾新材料有限公司 Shenzhen Gaodun New Material Co., Ltd.	检测类别 Classification of Test	委托检测 Commission
生产单位 Manufacturer	深圳市高盾新材料有限公司 Shenzhen Gaodun New Material Co., Ltd.	生产批号 Batch Number	----
送样日期 Sampling Date	24/6/2026	生产日期 Production Date	2026-06-16
检测日期 Test Date	24/6/2026~18/8/2026	型号/商标 Type/Trademark	----/High Shield
样品数量 Sample Numbers	1 套（液体+试板+涂膜） 1 set (liquid + test plate + coating)	合同编号 Contract Number	T26060219
检测项目 Test Item	见检测项目及结果页 See the page of test items and results	样品描述及说明 Description and Explanation of Sample	未见异常 No abnormalities observed
检测依据 Test Method	HG/T 5368-2018,GB/T 16777-2008,GB/T 19250-2013,GB/T 1728-2020,GB/T 20624.2-2006,GB/T 5210-2006,GB/T 1768-2006,GB/T 30648.1-2014,GB/T 1733-1993,GB/T 39693.4-2025,GB/T 19466.2-2025,GB/T 1725-2007		
检测结论 Result	该样品依照相关标准进行检测，所检项目检测结果均符合委托方提供的技术指标要求。 This sample was tested in accordance with relevant standards, and the test results of all the inspected items met the technical indicators requirements provided by the client. （检测报告专用章） (Official Seal for Inspecting and Testing Report) 签发日期：21/8/2026 Issued Date:		
备注 Remark	配比：A组份：B组份=1.0:1.0 （质量比） Ratio: Component A : Component B = 1.0 : 1.0 (by mass)		

批准：Approved by 李依依　审核：Inspected by 钟金徽　主检：Tested by 李锦滔

序号 Serial Number	检测项目 Testing items	检测依据 Testing basis	指标值 Indicator value	检测结果 Test results	本项结论 This conclusion
1	在容器中状态 The state within the container	HG/T 5368-2018	搅拌混合后无硬块，呈均匀状态 After being stirred and mixed, there are no hard lumps and it is in a uniform state.	搅拌混合后无硬块，呈均匀状态 After being stirred and mixed, there are no hard lumps and it is in a uniform state.	符合 Pass
2	涂膜外观 Coating appearance	HG/T 5368-2018	正常 Normal	正常 Normal	符合 Pass
3	拉伸强度（标准状态），MPa Tensile strength (standard condition), MPa	GB/T 16777-2008	≥10	13.00	符合 Pass
4	断裂伸长率（标准状态），% Tensile elongation (standard condition), %	GB/T 16777-2008	≥100	177	符合 Pass
5	撕裂强度，kN/m Tear strength, kN/m	GB/T 16777-2008	≥40	42	符合 Pass
6	耐弯曲性能（Φ10mm弯折） Bending resistance (10mm diameter bend)	GB/T 16777-2008	≤-20℃，无开裂、无剥离 ≤ -20℃, no cracking, no peeling	-20℃，无开裂、无剥离 -20℃, no cracking, no peeling	符合 Pass
7	不透水性(0.4MPa.2h) Water impermeability (0.4 MPa. 2 hours)	GB/T 16777-2008	不透水 Impermeable	无透水 Non-permeable	符合 Pass

序号 Serial Number	检测项目 Testing items		检测依据 Testing basis	指标值 Indicator value	检测结果 Test results	本项结论 This conclusion
8	干燥时间 Drying time	表干时间,h Drying time ,h	GB/T 1728-2020	≤4	4，已表干 4, Already dried	符合 Pass
		实干时间,h Action time, h		≤24	24，已实干 24, Already dried in practice	符合 Pass
9	耐冲击性,kg*cm Impact resistance, kg*cm		GB/T 20624.2-2006	100	100	符合 Pass
10	附着力(拉开法) Adhesion (pull-apart method)	混凝土基材,MPa Concrete substrate, MPa	GB/T 5210-2006	≥3 或底材破坏 ≥3 or substrate damage	4（3.7~4.1）,100%A	符合 Pass
		瓷砖面基材,MPa Tile base material, MPa		≥3 或底材破坏 ≥3 or substrate damage	7（6.4~7.7）,100%A	符合 Pass
		钢基材,MPa Steel substrate, MPa		≥4	5(2.5~5.7),100%Y/Z	符合 Pass
11	耐磨性(750g/500r.CS-10 砂轮),mg Wear resistance (750g/500r. CS-10 grinding wheel), mg		GB/T 1768-2006	≤40	8	符合 Pass

检测项目及结果Test Items and Results

序号 Serial Number	检测项目 Testing items	检测依据 Testing basis	指标值 Indicator value	检测结果 Test results	本项结论 This conclusion
12	耐盐性 1000h(3%的 NaCl) Salt tolerance 1000 hours (3% NaCl)	GB/T 30648.1-2014	涂层无起泡、起皱、明显变色、脱落现象 The coating shows no signs of blistering, wrinkling, significant discoloration or peeling.	涂层无起泡、无起皱、无变色、无脱落 The coating shows no bubbling, no wrinkling, no discoloration and no peeling.	符合 Pass
13	耐油性 240h(机油) Oil resistance 240 hours (with engine oil)	GB/T 30648.1-2014	涂层无起泡、起皱、明显变色、脱落现象 The coating shows no signs of blistering, wrinkling, significant discoloration or peeling.	涂层无起泡、无起皱、无变色、无脱落 The coating shows no bubbling, no wrinkling, no discoloration and no peeling.	符合 Pass
14	耐酸性 240h(5%H_2SO_4) Acid resistance 240 hours (5% sulfuric acid)	GB/T 30648.1-2014	涂层无起泡、起皱、明显变色、脱落现象 The coating shows no signs of blistering, wrinkling, significant discoloration or peeling.	涂层无起泡、无起皱、无变色、无脱落 The coating shows no bubbling, no wrinkling, no discoloration and no peeling.	符合 Pass
15	耐碱性 240h(5%NaOH) Alkali resistance 240 hours (5% NaOH)	GB/T 30648.1-2014	涂层无起泡、起皱、明显变色、脱落现象 The coating shows no signs of blistering, wrinkling, significant discoloration or peeling.	涂层无起泡、无起皱、无变色、无脱落 The coating shows no bubbling, no wrinkling, no discoloration and no peeling.	符合 Pass

检测项目及结果Test Items and Results

序号 Serial Number	检测项目 Testing items		检测依据 Testing basis	指标值 Indicator value	检测结果 Test results	本项结论 This conclusion
16	耐水性 240h Water resistance 240 hours		GB/T 1733-1993	涂层无起泡、起皱、明显变色、脱落现象 The coating shows no signs of blistering, wrinkling, significant discoloration or peeling.	涂层无起泡、无起皱、无变色、无脱落 The coating shows no bubbling, no wrinkling, no discoloration and no peeling.	符合 Pass
17	硬度(邵 A) Hardness (Shore A)		GB/T 39693.4-2025	≥80	86.4	符合 Pass
18	漆膜玻璃化转变温度 Tg Glass transition temperature of the paint film (Tg)	起始温度,℃ Initial temperature, ° C	GB/T 19466.2-2025	---	-51.1	实测值 Measured value
		中点温度,℃ Mid-point temperature, ° C		---	-43.4	实测值 Measured value
		终点温度,℃ Final temperature, ° C		---	-35.8	实测值 Measured value
19	不挥发份含量 (A+B 混合后固含量),% Non-volatile content (solid content after mixture of A and B), %		GB/T 1725-2007	≥85	92.6	符合 Pass
20	吸水率,% Absorption rate, %		GB/T 19250-2013	≤5.0	1.0	符合 Pass

委托方地址 Client Address	深圳市福田区园岭街道华林社区八卦五街16号八卦岭工业区420栋509 Room 509, Building 420, Bagualing Industrial Zone, Futian District, Shenzhen
试样制备及说明 Preparation of Sample and Explanation	样品由委托方提供 The samples were provided by the client.
主要试验设备（或仪器） Major Test Instruments	QGS型干燥时间试验仪(L1038)，HC-150D恒温恒湿试验箱(L3089)，DTS-6A防水卷材不透水仪(L1258)，BGD523漆膜磨耗仪(L1146)，FB224电子天平(L1021)，Sartorius千分之一电子天平(L1091)，HPEⅡ邵A硬度计(L0140)，DHG-9050A鼓风干燥箱(L1121)，BGD305重型冲击器(L1135)，PosiTest AT-A附着力测试仪(L1235)，DSC 214差示扫描量热仪(L2075)， QGS type drying time tester (L1038), HC-150D constant temperature and humidity test chamber (L3089), DTS-6A waterproof roofing material water impermeability tester (L1258), BGD523 paint film wear tester (L1146), FB224 electronic balance (L1021), Sartorius one-thousandth electronic balance (L1091), HPEⅡ Shao A hardness tester (L0140), DHG-9050A forced air drying oven (L1121), BGD305 heavy-duty impactor (L1135), PosiTest AT-A adhesion tester (L1235), DSC 214 differential scanning calorimeter (L2075)
试验环境及状态 Test Environment and Conditions	环境温度：(23±2) ℃；相对湿度：(50±5) % Environmental temperature: (23 ± 2) ℃; Relative humidity: (50 ± 5) %
试验结果不确定度 Uncertainty of Testing Results	----------
分包项目及分包方 Subcontractor and Subcontracting Items	----------
备　注 Remark	----------

**********End**********