



龍彩新材料有限公司

Longcai Advanced Materials Co., Ltd.

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粉末涂料树脂

POWDER COATING RESINS

www.longcester.com





烟台厂区 YANTAI PLANT



威海厂区 WEIHAI PLANT

Company Profile

Longcai Advanced Materials is a purpose-led science-based company in powder coating resins and specialty resins. Longcai is driving innovation to create sustainable value for all of our partners.

The company is situated on the east coast of China, with two production sites in Yantai and Weihai, covering an area of 295,000 square meters in total.

Longcai delivers raw materials solutions for powder coating under the **Longcester®** brand, catering to the industry's needs for TGIC-curing, HAA-curing, Hybrid polyester resins, PU resins, fluorocarbon resins, two-step epoxy resins and additives.

By adopting automatic production control and packaging systems, Longcai is ensuring the quality and stability of our product range achieves industry leading standard. And with their excellent performance, **Longcester®** resins enjoy continued support from our partners from various manufacturing industries worldwide, together, we are bringing more colour to the world.

As a member of SIEF, Longcai has been certified for EU Regulation REACH, ISO9001 and ISO14001, our resins perform better and are kinder to the planet. By continuing to invest in technologies and people, together with our sister company Lingyu Powder Machinery, we hope to bring in innovative complete production solutions to our customers to get the very most from their powder coatings.

公司简介

龍彩新材料是一家以粉末涂料树脂和特殊树脂为主导的科学型公司。龍彩不断推动创新，致力于为所有合作伙伴创造可持续价值。

龍彩公司坐落于中国东海岸，拥有烟台和威海两个生产基地，总占地面积29.5万平方米。

龍彩提供**Longcester®**品牌的粉末涂料原材料解决方案，满足行业对TGIC固化、HAA固化、混合聚酯树脂、PU树脂、氟碳树脂、二步法环氧树脂和添加剂的需求。

龍彩采用自动化生产控制和包装系统，以确保产品质量和稳定性达到行业领先水平。凭借其卓越性能，**Longcester®**树脂得到了全球各行业合作伙伴的持续支持，携手为世界带来更绚烂的色彩。

作为SIEF的成员，龍彩已通过欧盟法规REACH、ISO9001和ISO14001认证，我们的树脂性能更优，更环保。通过持续研发和引进人才，我们希望与我们的姊妹公司-凌宇粉末机械有限公司一起，为客户提供不断创新的一体化生产解决方案，以满足他们对粉末涂料的最大需求。

Certificate of Quality & Environmental Management System

质量和环境管理体系认证证书



ISO9001



ISO14001



ISO9001质量管理体系认证



ISO14001环境管理体系认证



Longcester® Polyester Resins

龍彩聚酯树脂



Longcester®
Industrial Grade:
龍彩一般工业等级树脂:

Good mechanical performance, flow, yellowing and weathering resistance.

具有优异的流平性, 机械性, 耐黄变性以及耐候性。

Longcester®
Super Durable Grade:
龍彩超耐候等级树脂:

Excellent weather resistance, in accordance to QUALICOAT II and AAMA2604.

具有极佳的耐候性能, 满足QUALICOAT II 和AAMA2604要求。



Longcester®
Architectural Grade:
龍彩建筑等级树脂:

Good weather resistance, in accordance to QUALICOAT I and AAMA2603.

具有优异的耐候性能, 满足QUALICOAT I 和AAMA2603要求。

Longcester®
Interior Grade:
龍彩户内混合型树脂:

Good flow, mechanical performance and erosion resistance.

具有优异的流平性, 机械性能以及耐化学性能等。



Longcester® Powder Coating Resins Portfolio

龍彩粉末涂料树脂系列

Application



应用领域



Longcester® TGIC Curing Resins

龍彩TGIC固化聚酯树脂

Industrial	P5418(96:4)	P5021(93:7) P5036(93:7)	P5601(94:6)	P5708-1(93:7) P5038(93:7)	P5016(90:10)	一般户外	P5418(96:4)	P5021(93:7) P5036(93:7)	P5601(94:6)	P5708-1(93:7) P5038(93:7)	P5016(90:10)
Architectural	P5416(96:4) P5420(96:4)	P5020(93:7) P5032(93:7)	P5019(93:7)	P5706-2(93:7)	P5015(90:10)	建筑等级	P5416(96:4) P5420(96:4)	P5020(93:7) P5032(93:7)	P5019(93:7)	P5706-2(93:7)	P5015(90:10)
Super Durable	P9588(96:4)	P9510(93:7)	P9570(93:7)		P9590(90:10)	超耐候等级	P9588(96:4)	P9510(93:7)	P9570(93:7)		P9590(90:10)

Longcester® HAA Curing Resins

龍彩HAA固化聚酯树脂

Industrial	P8350(96.5:3.5)		P8660(95:5)			一般户外	P8350(96.5:3.5)		P8660(95:5)		
Architectural	P8300(96.5:3.5)		P8550(95:5) P8650(95:5)		P8700(93:7) P8800(92:8)	建筑等级	P8300(96.5:3.5)		P8550(95:5) P8650(95:5)		P8700(93:7) P8800(92:8)
Super Durable	P9588(96.5:3.5)		P9580(95:5)		P9590(92:8)	超耐候等级	P9588(96.5:3.5)		P9580(95:5)		P9590(92:8)

Longcester® Powder Coating Resins Portfolio

龍彩粉末涂料树脂系列

Application



应用领域



Longcester® Hydroxylated Polyester Resins

龍彩羟基聚酯树脂

Industrial

P1000(87:13)
P1000H(93:7)
P1200(80:20)
P1600(70:30)

一般户外

P1000(87:13)
P1000H(93:7)
P1200(80:20)
P1600(70:30)

Longcester® Fluorocarbon Resins

龍彩氟碳树脂

Hyper Durable

LF720(83:17)
LF740(83:17)
LF760(83:17)

氟碳等级

LF720(83:17)
LF740(83:17)
LF760(83:17)

Longcester® Hybrid Resins

龍彩混合型聚酯树脂

Interior

P3305-2(70:30)
P3306-3(70:30)
P3307-2(70:30)
P3326(70:30)
P3403-2(60:40)
P3413(60:40)
P3501-2(50:50)
P3506(50:50)
P3506S(50:50)
P3317(70:30)
P3408(60:40)
P3504(50:50)
P3319(70:30)
P3505(50:50)

户内应用

P3305-2(70:30)
P3306-3(70:30)
P3307-2(70:30)
P3326(70:30)
P3403-2(60:40)
P3413(60:40)
P3501-2(50:50)
P3506(50:50)
P3506S(50:50)
P3317(70:30)
P3408(60:40)
P3504(50:50)
P3319(70:30)
P3505(50:50)

Longcester® TGIC Curing Resins

龍彩TGIC固化聚酯树脂

Curing Temp.	96:4(AV~25)	94:6(AV~30)	93:7(AV~35)	90:10(AV~55)	固化温度	96:4(酸值~25)	94:6(酸值~30)	93:7(酸值~35)	90:10(酸值~55)
200℃	P5416 P5418 P5420 P9588	P5601	P5706-2 P5019 P5020 P5021 P5032 P5036 P5038 P9510 P9570	P5015 P5016 P9590	200℃	P5416 P5418 P5420 P9588	P5601	P5706-2 P5019 P5020 P5021 P5032 P5036 P5038 P9510 P9570	P5015 P5016 P9590
180℃			P5708-1		180℃			P5708-1	

Longcester® HAA Curing Resins

龍彩HAA固化聚酯树脂

Curing Temp.	96.5:3.5 (AV~25)	95:5 (AV~33)	93:7 (AV~48)	92:8 (AV~50)	固化温度	96.5:3.5(酸值~25)	95:5(酸值~33)	93:7(酸值~48)	92:8 (酸值~50)
200℃	P9588	P9580		P9590	200℃	P9588	P9580		P9590
180℃	P8350 P8300	P8550 P8650 P8660		P8800	180℃	P8350 P8300	P8550 P8650 P8660		P8800
160℃			P8700		160℃			P8700	

Longcester® Hydroxylated Polyester Resins

龍彩羟基聚酯树脂

Curing Temp.	93:7 (HV~45)	87:13 (HV~35)	80:20 (HV~45)	70:30 (HV~100)	固化温度	93:7(羟值~45)	87:13(羟值~35)	80:20羟值~45)	70:30(羟值~100)
200℃	P1000H	P1000	P1200	P1600	200℃	P1000H	P1000	P1200	P1600

Longcester® Fluorocarbon Resins

龍彩氟碳树脂

Curing Temp.	83:17 (HV~40)	固化温度	83:17(羟值~40)
200℃	LF720 LF740 LF760	200℃	LF720 LF740 LF760

Longcester® Hybrid Polyester Resins

龍彩混合型聚酯树脂

Curing Temp.	50:50 (AV~70)	60:40 (AV~55)	70:30 (AV~34)	固化温度	50:50(酸值~70)	60:40(酸值~55)	70:30(酸值~34)
200℃	P3501-2 P3506 P3506S	P3403-2 P3413	P3305-2 P3306-3 P3307-2	200℃	P3501-2 P3506 P3506S	P3403-2 P3413	P3305-2 P3306-3 P3307-2
180℃	P3504	P3408	P3317 P3326	180℃	P3504	P3408	P3317 P3326
160℃	P3505		P3319	160℃	P3505		P3319

Typical Properties For Longcester® TGIC Resins

龍彩TGIC固化树脂典型特性

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	酸值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦 树脂	燃气炉 树脂	特点
P5706-2	93:7	30~36	45~55	~64	200°C/10'	No	Yes	Good flow and weather resistance, suitable for architectural application.	P5706-2	93:7	30~36	45~55	~64	200°C/10'	No	Yes	优异的流平性能与耐候性能, 适用于户外建筑产品。
P5708-1	93:7	30~36	45~60	~67	180°C/10'	No	Yes	High Tg, medium curing, good mechanical performance and weather resistance.	P5708-1	93:7	30~36	45~60	~67	180°C/10'	No	Yes	高Tg, 中等反应树脂, 优异的机械性能与耐候性能, 适用于户外一般工业产品。
P5019	93:7	30~36	35~45	~62	200°C/10'	No	Yes	Medium curing, good flow and mechanical performance. Suitable for architectural application.	P5019	93:7	30~36	35~45	~62	200°C/10'	No	Yes	中等反应树脂, 优异的流平性能与机械性能, 适用于户外建筑产品。
P5020	93:7	30~35	45~50	~70	200°C/10'	No	Yes	High Tg, medium curing, good flow and mechanical performance, good storage stability. Suitable for architectural application.	P5020	93:7	30~35	45~50	~70	200°C/10'	No	Yes	高Tg, 中等反应树脂, 优异的流平性能与机械性能, 适用于户外耐候产品, 优异的储存稳定性。
P5021	93:7	30~35	45~55	~64	200°C/10'	No	Yes	Medium curing, very good flow and mechanical performance, outdoor durable application. Suitable for high gloss finish.	P5021	93:7	30~35	45~55	~64	200°C/10'	No	Yes	中等反应树脂, 优异的流平性能与机械性能, 适用于户外耐候高光产品。
P5032	93:7	30~36	30~40	~65	200°C/10'	No	Yes	High Tg, good flow, flexibility and outdoor weathering resistance performance.	P5032	93:7	30~36	30~40	~65	200°C/10'	No	Yes	高Tg, 优异的流平性能、柔韧性与户外耐候性能。
P5036	93:7	30~35	45~55	~65	200°C/10'	No	No	Medium curing, excellent flow, outdoor durability, suitable for high gloss finish.	P5036	93:7	30~35	45~55	~65	200°C/10'	No	No	中等反应树脂, 具有优异的流平性能与耐候性能, 适用于户外高光效果。
P5038	93:7	30~35	55~65	~70	200°C/10'	No	No	High Tg, medium curing, good flow, good mechanical performance, suitable for high gloss finish.	P5038	93:7	30~35	55~65	~70	200°C/10'	No	No	高Tg, 中等反应树脂, 流平性和机械性能好, 适合高光产品。
P5601	94:6	28~32	55~65	~65	200°C/10'	No	No	Excellent flow, outdoor durability and good mechanical performance. Suitable for high gloss finish.	P5601	94:6	28~32	55~65	~65	200°C/10'	No	No	优异的流平性能、户外耐候性能与优异的机械性能, 适用于户外高光效果。
P5015	90:10	48~53	45~55	~62	200°C/10'	No	Yes	For matt dry blend formulations with P5416. The resin has very good weather resistance. Architectural grade. Qualicoat I compliant.	P5015	90:10	48~53	45~55	~62	200°C/10'	No	Yes	快速反应树脂, 与P5416干混双组份消光, 优异的耐候性能, 适用于建筑等级产品, 符合QUALICOAT I类要求。

Typical Properties For Longcester® TGIC Resins

龍彩TGIC固化树脂典型特性

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	酸值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦 树脂	燃气炉 树脂	特点
P5016	90:10	48~53	45~55	~64	200°C/10'	No	No	Fast curing, for dry blend low gloss with P5418. Good flow and flexibility. Suitable for outdoor industrial application.	P5016	90:10	48~53	45~55	~64	200°C/10'	No	No	快速反应树脂, 与P5418干混双组份消光, 优异的流平性能与柔韧性能, 适用于户外一般工业产品。
P5416	96:4	20~25	45~55	~62	200°C/10'	No	Yes	For matt dry blend formulations with P5015. The resin has very good weather resistance. Architectural grade. Qualicoat I compliant.	P5416	96:4	20~25	45~55	~62	200°C/10'	No	Yes	慢速反应树脂, 与P5015干混双组份消光, 优异的耐候性能, 适用于建筑等级产品, 符合QUALICOAT I类要求。
P5418	96:4	20~25	45~55	~64	200°C/10'	No	No	Slow curing, for matt dry blend formulations with P5016, Good flow and flexibility. Suitable for outdoor industrial application.	P5418	96:4	20~25	45~55	~64	200°C/10'	No	No	慢速反应树脂, 与P5016干混双组份消光, 良好的流平性能与柔韧性能, 适用于户外一般工业产品。
P5420	96:4	20~25	45~55	~64	200°C/10'	No	Yes	Slow curing, for matt dry blend formulations with P5016, very good mechanical performance. Suitable for architectural application.	P5420	96:4	20~25	45~55	~64	200°C/10'	No	Yes	慢速反应树脂, 与P5016干混双组份消光, 优异的机械性能, 适用于户外建筑产品。
P9510	93:7	30~36	30~40	~65	200°C/10'	No	No	High weather durability, medium reactivity, good flow, outstanding mechanical properties, meet AAMA2604 requirement, suitable for high gloss finish.	P9510	93:7	30~36	30~40	~65	200°C/10'	No	No	具有超耐候性, 中等反应树脂, 流平好, 具有优异的机械性能, 符合AAMA2604要求, 适合高光产品。
P9570	93:7	30~36	30~40	~65	200°C/10'	No	Yes	High Tg, good flow, good mechanical performance and good yellowing resistance. Suitable for outdoor super durable architectural application.	P9570	93:7	30~36	30~40	~65	200°C/10'	No	Yes	高Tg, 优异的流平性能、机械性能与耐黄变性能, 适用于户外超耐候建筑产品。
P9588	96:4	20~25	40~50	~64	200°C/15'	No	Yes	Super durable, slow curing, for matt dry blend with P9590. Qualicoat II compliant.	P9588	96:4	20~25	40~50	~64	200°C/15'	No	Yes	慢速反应树脂, 与P9590干混双组份消光, 适用于户外超耐候产品, 符合QUALICOAT II类要求。
P9590	90:10	48~53	40~50	~64	200°C/15'	No	Yes	Super durable, fast curing, for matt dry blend with P9588. Qualicoat II compliant.	P9590	90:10	48~53	40~50	~64	200°C/15'	No	Yes	快速反应树脂, 与P9588干混双组份消光, 适用于户外超耐候产品, 符合QUALICOAT II类要求。

Typical Properties For Longcester® HAA Resins

龍彩HAA固化树脂典型特性

P8550	95:5	30~36	30~40	~60	180°C/15'	No	Yes	Good storage stability, mechanical and weather resistance. It's suitable for outdoor architectural application. Qualicoat I compliant.	P8550	95:5	30~36	30~40	~60	180°C/15'	No	Yes	优异的储存稳定性, 优异的机械性能与耐候性能, 适用于户外建筑产品, 符合QUALICOAT I类要求。
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Typical Properties For Longcester® HAA Resins

龍彩HAA固化树脂典型特性

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	酸值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦 树脂	燃气炉 树脂	特点
P8650	95:5	30~36	30~40	~60	180°C/15'	Yes	Yes	Good storage stability, mechanical and weather resistance. It's suitable for outdoor architectural application. Tribo version of P8550. Qualicoat I compliant.	P8650	95:5	30~36	30~40	~60	180°C/15'	Yes	Yes	优异的储存稳定性,优异的机械性能与耐候性能,适用于户外建筑产品,符合QUALICOAT I类要求, P8550摩擦树脂版本。
P8660	95:5	30~36	30~40	~62	180°C/10'	Yes	Yes	Fast curing, good flow and flexibility. Tribo version. For architectural application.	P8660	95:5	30~36	30~40	~62	180°C/10'	Yes	Yes	快速反应树脂, 优异的流平性能与柔韧性能, 摩擦树脂, 适用于户外建筑产品。
P8700	93:7	45~48	45~50	~62	160°C/15'	No	Yes	Fast and low temperature curing, good mechanical performance and flexibility, suitable for outdoor architectural application.	P8700	93:7	45~48	45~50	~62	160°C/15'	No	Yes	低温固化, 快速反应树脂, 良好的机械性能与柔韧性能, 适用于户外建筑产品。
P8800	92:8	48~53	45~50	~62	180°C/10'	No	Yes	Fast curing, for matt dry blend with P8300. Good weather resistance. Qualicoat I compliant.	P8800	92:8	48~53	45~50	~62	180°C/10'	No	Yes	快速反应树脂, 与P8300干混双组份消光. 良好的耐候性能, 符合QUALICOAT I类要求。
P8300	96.5:3.5	20~25	45~50	~62	180°C/15'	No	Yes	Slow curing, for matt dry blend with P8800. Good weather resistance. Qualicoat I compliant.	P8300	96.5:3.5	20~25	45~50	~62	180°C/15'	No	Yes	慢速反应树脂, 与P8800干混双组份消光. 良好的耐候性能, 符合QUALICOAT I类要求。
P8350	96.5:3.5	20~25	30~40	~62	180°C/15'	Yes	Yes	Slow curing, good flow, flexibility, yellowing resistance performance, suitable for outdoor durable application. Enhanced tribo chargeability characteristics.	P8350	96.5:3.5	20~25	30~40	~62	180°C/15'	Yes	Yes	慢速反应树脂, 优异的流平性能、柔韧性能和耐黄变性能, 适用于户外耐候产品, 摩擦树脂。
P9580	95:5	30~36	40~50	~62	200°C/15'	No	Yes	Super durable, suitable for outdoor architectural. High gloss and semi-gloss application. Qualicoat II Compliant.	P9580	95:5	30~36	40~50	~62	200°C/15'	No	Yes	超耐候聚酯树脂, 适用于户外超耐候建筑高光和半光产品, 符合QUALICOAT II类要求。
P9588	96.5:3.5	20~25	40~50	~64	200°C/15'	No	Yes	Super durable, slow curing, for matt dry blend with P9590. Qualicoat II compliant.	P9588	96.5:3.5	20~25	40~50	~64	200°C/15'	No	Yes	慢速反应树脂, 与P9590干混双组份消光, 适用于户外超耐候产品, 符合QUALICOAT II类要求。
P9590	92:8	48~53	40~50	~64	200°C/15'	No	Yes	Super durable, slow curing, for matt dry blend with P9590. Qualicoat II compliant.	P9590	92:8	48~53	40~50	~64	200°C/15'	No	Yes	快速反应树脂, 与P9588干混双组份消光, 适用于户外超耐候产品, 符合QUALICOAT II类要求。

Typical Properties For Longcester® PU Resins

龍彩PU体系产品系列

Product	Ratio	Hydroxyl Value mgKOH/g	Viscosity 200°C Pa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	羟值 mgKOH/g	粘度 200°C Pa.S	Tg °C	固化条件	摩擦树脂	燃气炉树脂	特点
P1000	87:13	20~25	60~70	~60	200°C/15'	No	Yes	Medium curing, good flow and mechanical performance. Suitable for industrial application.	P1000	87:13	20~25	60~70	~60	200°C/15'	No	Yes	中等反应树脂, 优异的流平性能与机械性能, 适用于户外一般工业产品。
P1200	80: 20	35~45	60~70	~60	200°C/15'	No	Yes	Medium curing, good flow and mechanical performance. For architectural and industrial application.	P1200	80: 20	35~45	60~70	~60	200°C/15'	No	Yes	中等反应树脂, 优异的流平性能与机械性能, 适用于户外建筑产品和一般工业产品。
P1600	70: 30	90~100	60~70	~60	200°C/15'	No	Yes	Medium curing, good flow, mechanical performance and chemical resistance.	P1600	70: 30	90~100	60~70	~60	200°C/15'	No	Yes	中等反应树脂, 优异的流平性能、机械性能和耐化学品性能。
P1000H	93:7	35~45	80~90	~60	200°C/15'	No	Yes	Medium curing, good mechanical performance, suitable for wrinkle finish. Architectural grade.	P1000H	93:7	35~45	80~90	~60	200°C/15'	No	Yes	中等反应树脂, 优异的机械性能, 适用于纹理效果, 建筑等级产品。

Typical Properties For Longcester® Fluorocarbon Resins

龍彩氟碳树脂典型特性

LF720	83:17	40~45	30~40	~56	200°C/10'	No	Yes	High Tg, good flow and mechanical performance, excellent weathering and chemical resistance, good yellowing resistance. Suitable for matt gloss effect.	LF720	83:17	40~45	30~40	~56	200°C/10'	No	Yes	高Tg, 优异的流平性能、机械性能、耐化学品性能和耐黄变性能, 适用于消光产品。
LF740	83:17	40~45	30~40	~56	200°C/10'	No	Yes	High Tg, good flow and mechanical performance, excellent weathering and chemical resistance, good yellowing resistance. Suitable for semi gloss effect.	LF740	83:17	40~45	30~40	~56	200°C/10'	No	Yes	高Tg, 优异的流平性能、机械性能、耐化学品性能和耐黄变性能, 适用于半光产品。
LF760	83:17	40~45	30~40	~56	200°C/10'	No	Yes	Good flow, outstanding mechanical properties, excellent weathering and chemical resistance. Suitable for glossy effect.	LF760	83:17	40~45	30~40	~56	200°C/10'	No	Yes	优异的流平性能、机械性能、耐候性和耐化学品性能, 适用于高光产品。

Typical Properties For Longcester® Hybrid Resins

龍彩混合型聚酯树脂典型特性

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	酸值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦 树脂	燃气炉 树脂	特点
P3305-2	70:30	28~38	40~50	~58	200°C/10'	No	Yes	Yellowing resistance, excellent mechanical performance and flow properties.	P3305-2	70:30	28~38	40~50	~58	200°C/10'	No	Yes	耐黄变树脂, 优异的机械性能与流平性能。
P3306-3	70:30	30~35	45~55	~60	200°C/10'	No	No	Medium curing, high Tg, good flow, suitable for high gloss effect product, outstanding mechanical properties.	P3306-3	70:30	30~35	45~55	~60	200°C/10'	No	No	中等反应树脂, 高Tg, 流平好, 适合高光产品, 具有优异的机械性能。
P3307-2	70:30	30~35	40~50	~62	200°C/10'	No	Yes	Standard type resin, good comprehensive performance.	P3307-2	70:30	30~35	40~50	~62	200°C/10'	No	Yes	标准型, 具有优异的综合性能。
P3317	70:30	30~35	55~75	~58	180°C/10'	No	Yes	Medium curing, excellent flow, suitable for high gloss effect, good mechanical performance.	P3317	70:30	30~35	55~75	~58	180°C/10'	No	Yes	中等反应树脂, 优异的流平性能与机械性能, 适用于高光产品。
P3319	70:30	30~35	25~35	~56	160°C/10'	No	Yes	Low temperature curing, good flow and mechanical performance, suitable for high gloss effect.	P3319	70:30	30~35	25~35	~56	160°C/10'	No	Yes	低温固化树脂, 优异的流平性能与机械性能, 适用于高光产品。
P3326	70:30	30~35	45~55	~60	180°C/10'	No	No	Medium curing, good flow, suitable for high gloss effect, outstanding mechanical performance.	P3326	70:30	30~35	45~55	~60	180°C/10'	No	No	中等反应树脂, 流平好, 适合高光产品, 具有优异的机械性能, 高Tg。
P3403-2	60:40	48~53	25~35	~59	200°C/10'	No	No	Standard type resin, good comprehensive performance.	P3403-2	60:40	48~53	25~35	~59	200°C/10'	No	No	标准型, 具有优异的综合性能。

Typical Properties For Longcester® Hybrid Resins

龍彩混合型聚酯树脂典型特性

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	酸值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦 树脂	燃气炉 树脂	特点
P3408	60:40	48~53	30~40	~58	180°C/10'	No	No	Yellowing resistance, excellent mechanical performance and flow properties.	P3408	60:40	48~53	30~40	~58	180°C/10'	No	No	耐黄变树脂, 优异的机械性能与流平性能。
P3413	60:40	48~55	20~30	~56	200°C/10'	No	No	Good flow, outstanding pigment wet properties and good storage stability.	P3413	60:40	48~55	20~30	~56	200°C/10'	No	No	优异的流平性能和颜料润湿性能, 优异的储存稳定性。
P3501-2	50:50	70~76	30~40	~59	200°C/10'	No	No	Good balance of flow and mechanical properties and good pigment wetting.	P3501-2	50:50	70~76	30~40	~59	200°C/10'	No	No	流平性能与机械性能平衡, 优异的颜料润湿性能。
P3504	50:50	58~65	20~30	~56	180°C/10'	No	No	Fast curing, good flow and mechanical performance.	P3504	50:50	58~65	20~30	~56	180°C/10'	No	No	快速反应树脂, 优异的流平性能与机械性能。
P3505	50:50	65~75	20~30	~56	160°C/10'	No	No	Fast curing, good balance of flow and mechanical properties.	P3505	50:50	65~75	20~30	~56	160°C/10'	No	No	快速反应树脂, 流平性能与机械性能平衡。
P3506	50:50	68~75	20~40	~60	200°C/10'	No	No	Medium curing, good flow ,good storage stability.	P3506	50:50	68~75	20~40	~60	200°C/10'	No	No	中等反应树脂, 流平好, 储存性能好。
P3506S	50:50	68~75	20~40	~62	200°C/10'	No	No	Medium curing, good flow ,good storage stability, high Tg.	P3506S	50:50	68~75	20~40	~62	200°C/10'	No	No	中等反应树脂, 流平好, 储存性能好, 高Tg。



As a main component of thermosetting powder coatings, epoxy resin has been widely applied for its good adhesive, anti-corrosion, insulating, strengthening properties. Epoxy resin is widely used in the adhesion between metal and non-metal materials, anti-corrosion coatings, insulating materials, glass fibre reinforced plastic, MDF, industrial plastic and other composite materials. Epoxy resin is playing an essential part in various industries including electronics, machinery, chemicals, aerospace, shipping, building materials and hydro powder, it has become an crucial base material for the industrial world.

Longcester® resins, with our focus on "Environment, Quality and Customers", has been widely applied in interior powder coating, epoxy powder coating and functional powder coatings. Together with Longcester® polyester resins, Longcester® epoxy resins has been well received by our customers from over 50 countries and regions around the world, providing customers with complete solutions for powder coating.

环氧树脂作为热固性粉末涂料的主要成分，具有良好粘结、耐腐蚀、绝缘、高强度等性能，已被广泛应用于多种金属与非金属材料的粘结、耐腐蚀涂料、电气绝缘材料、玻璃钢、MDF以及工程塑料等复合材料的制造。在电子、电气、机械制造、化工防腐、航空航天、船舶运输、化学建材、水利电力及其他许多工业领域中起着重要的作用，已成为各工业领域中不可缺少的基础材料。

龍彩环氧树脂秉承绿色环保、品质第一、客户至上的企业宗旨，广泛应用于户内粉末涂料、纯环氧粉末涂料，功能性粉末涂料，深得客户好评。目前与龍彩聚酯一起，远销全球50多个国家和地区，为客户提供完整的粉末涂料解决方案。

Longcester® Typical Properties For Epoxy Resin

龍彩粉末涂料用环氧树脂典型特征

Longcester®
Chemical Resistant
Epoxy Resin LC-603E:
龍彩耐化学品环氧树脂:



Longcester®
General Purpose
Epoxy Resin LC-603H:
龍彩通用型环氧树脂:



Longcester®
Excellent Flexibility
Epoxy Resin LC-604E:
龍彩高柔韧性环氧树脂:



Longcester®
Corrosion Resistant
Epoxy Resin LC-604H:
龍彩耐腐蚀环氧树脂:



Product	EEW (g/eq)	Viscosity 150°C (cSt)	Softening Point °C	Color MAX	Properties	产品	环氧当量 (g/eq)	粘度 150° C (cSt)	软化点 °C	色相 MAX	特点
LC-603E	640~730	2500~4000	90~97	1	Excellent chemical resistant performance, flow, and flexibility. Suitable for high gloss, semi-gloss, matt-gloss and wrinkle finish.	LC-603E	640~730	2500~4000	90~97	1	优异的耐化学品性能、流平性能与柔韧性，适用于高光、半光、低光和纹理等外观效果。
LC-603H	740~800	3000~4500	96~102	1	General purpose epoxy resin. Excellent flexibility and chemical resistance. Good flow, storage stability. Suitable for indoor high gloss, semi-gloss, matt-gloss, wrinkle, rough texture finish.	LC-603H	740~800	3000~4500	96~102	1	通用型环氧树脂，优异的柔韧性和耐化学品性能，良好的流平性能和储存稳定性，适用于户内高光、半光、低光、橘纹、砂纹和绵绵纹等外观效果。
LC-604E	780~850	3500~5000	96~107	1	High flexible epoxy resin. Excellent flexibility and chemical resistance. Good storage stability. Suitable for indoor wrinkle, texture finish and functional powder coatings.	LC-604E	780~850	3500~5000	96~107	1	高柔韧性环氧树脂，优异的柔韧性和耐化学品性能，良好的储存稳定性，适用于户内橘纹、砂纹效果及功能性环氧粉末涂料。
LC-604H	840~900	4000~5500	100~112	1	Excellent corrosion resistant performance, flexibility and storage stability. Suitable for special finish and corrosion resistant functional powder coatings.	LC-604H	840~900	4000~5500	100~112	1	优异的耐腐蚀性、柔韧性和储存稳定性，适用于特殊效果及环氧防腐功能性粉末涂料。