

威海龙彩新材料有限公司  
Weihai Longcai Advanced Materials Co., Ltd.



# POWDER COATING RESINS

粉末涂料树脂



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## Longcester® Industrial grade polyester resin:

龙彩一般工业等级树脂:

Good flow, mechanical performance, yellowing and weathering resistance.

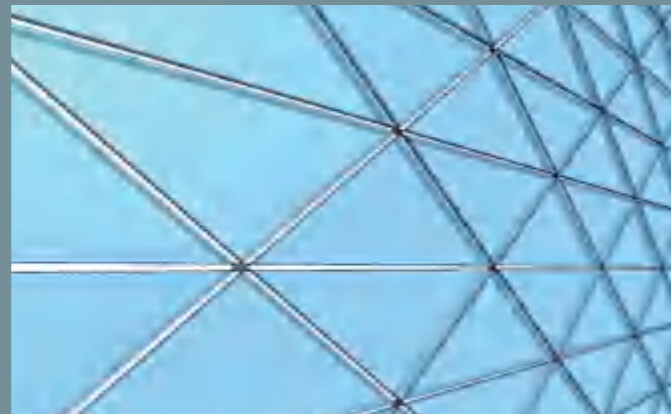
具有优异的流平性、机械性、耐黄性以及耐候性。

## Longcester® Architectural grade polyester resin:

龙彩建筑等级树脂:

Excellent performance, meets QUALCOAT I and AAMA2603.

具有优异的耐候性能，满足QUALICOAT I和AAMA2603要求。



## Longcester® Super durable grade polyester resin:

龙彩超耐候等级树脂:

Exceptional performance, meets QUALICOAT II and AAMA2604.

具有极佳的耐候性能，满足QUALICOAT II和AAMA2604要求。

## Longcester® Indoor grade polyester resin:

龙彩户内混合型树脂:

Good flow, mechanical performance and chemical resistance.

具有优异的流平性，机械性以及耐化学性能等。



### 混合型聚酯树脂 Hybrid Polyester Resins

应用等级 Grade	固化温度 Cure Temp.	固化时间 Cure Cycle.	50:50 酸值~70 AV~70	60:40 酸值~55 AV~55	70:30 酸值~34 AV~34
户内应用 Interior	200°C	10min	P3501-2	P3403-2 P3413	P3305-2
			P3506		P3306-3
					P3307-2
	180°C	10min	P3503 P3504	P3408	P3312
		160°C	10min	P3505	

### TGIC固化树脂 TGIC Curing Resins

应用等级 Grade	固化温度 Cure Temp.	固化时间 Cure Cycle.	96:4 酸值~25 AV~25	94:6 酸值~30 AV~30	93:7 酸值~35 AV~35	90:10 酸值~55 AV~55
建筑级 Architectural	230°C	1min				
一般工业级 Industrial	200°C	10min	P5418	P5601	P5021	P5016
					P5036	
					P5038	
建筑级 Architectural	200°C	10min	P5416 P5420		P5706-2	P5015
					P5019	
					P5010	
					P5018	
					P5012	
					P5032	
超耐候等级 Superdurable		10min			P9510 P9570	
		15min	P9588		P9580	P9590
一般工业级 Industrial	180°C	10min	P5708-1			
一般工业级 Industrial	160°C	10min				
超耐候等级 Superdurable		15min				
一般工业级 Industrial	140°C	20min			P5028	

### HAA固化树脂 HAA Curing Resins

应用等级 Grade	固化温度 Cure Temp.	固化时间 Cure Cycle.	96:3.5 酸值~25 AV~25	95:5 酸值~33 AV~33	93:7 酸值~48 AV~48	92:8 酸值~50 AV~50
超耐候等级 Superdurable	200°C	10min				
		15min	P9588	P9580		P9590
一般工业级 Industrial	180°C	10min		P8660 P8670		P8800
		15min				
建筑级 Architectural	160°C	15min	P8300 P8350	P8650 P8550		
建筑级 Architectural		10min		P8510		

### 羟基聚酯树脂 Hydroxylated Polyester Resins

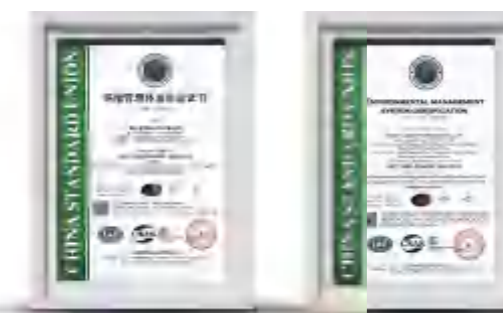
应用等级 Grade	固化温度 Cure Temp.	固化时间 Cure Cycle.	93:7 羟值~45 HV~45	87:13 羟值~35 HV~35	80:20 羟值~45 HV~45	70:30 羟值~100 HV~100
一般工业级 Industrial	200°C	15min	P1000H	P1000	P1200	P1600

### 氟碳聚酯树脂 Fluorocarbon Resins

应用等级 Grade	固化温度 Cure Temp.	固化时间 Cure Cycle.	83:17 羟值~40 HV~40			
一般工业级 Industrial	200°C	15min	LF720			
			LF740			
			LF760			

# COMPANY PROFILE

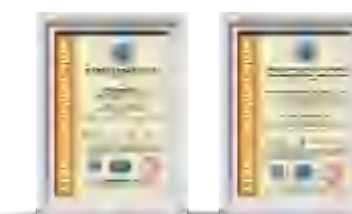
## 公司简介



ISO14001 Environmental System Certification  
ISO14001环境管理体系认证



ISO9001 Quality Management System Certification  
ISO9001质量管理体系认证



ISO45001 OHS Management System Certification  
ISO45001安全管理体系认证



龙彩新材料有限公司成立于2007年，是致力于粉末涂料用树脂及特殊树脂研发和制造的高新技术企业。公司以可持续发展为目标，技术创新为驱动力，为粉末涂料市场提供优质的产品与服务。龙彩现已通过质量管理体系认证ISO9001和环境管理体系认证ISO14001，并因其在可持续发展的努力和目标在2023年首次荣获Ecovadis金牌认证，名列全球前5%。

龙彩拥有专业的研发团队，先进的生产设施、检测设备与完备的质量体系，不断根据粉末涂料市场需求与发展趋势研发各种类型的树脂。龙彩产品系列包括TGIC与HAA固化型聚酯树脂、氟碳树脂、PU树脂、混合型树脂及添加剂等。龙彩作为出口导向型企业，产品畅销北美、欧盟、中东、东南亚等多个地区的上百家合作伙伴，出口占公司总销售额达80%。

在涂料市场迅速转型，粉末涂料行业高速发展的趋势下，龙彩将不断继续加大技术与产能投入，为涂料市场提供高质量产品与优质服务，与客户携手共进，共创永续发展未来。

Established in 2007, Longcai specialises in the R&D and manufacturing of polyester resin for powder coating. With a focus on sustainability, driven by technical innovation, Longcai provides exceptional products and service to the powder coating market. Longcai has been accredited with ISO9001 quality management certificate and ISO14001 environmental management certificate. In 2023, for the first time, Longcai receives Ecovadis Gold Medal for sustainability performance, ranking top 5% among companies globally.

Powered by an experienced development team, industry leading production facility and quality control framework, Longcai continues to offer the powder coating industry with high performance resins under the trademark LongCester® that meets market demands. LongCester® product portfolio includes polyester resins for TGIC and HAA cure, fluorocarbon resin, PU resin, hybrid resin and additives. As an export-oriented resin manufacturer, Longcai is the trusted supplier for more than 100 partners around the world, this accounts for 80% of total revenue of Longcai.

With the rapid growth of the powder coating industry globally, Longcai will further invest in its product development and production capabilities, to provide quality products and dedicated technical service to the surface coating market. Longcai hopes to work with you to create a sustainable future.

# Longcester® Powder Coating Resins Product Portfolio

龍彩粉末涂料树脂系列



## Longcester TGIC Curing Resins

## 龙彩TGIC固化聚酯树脂

<b>Industrial</b>	P5418(96:4)	P5021(93:7) P5036(93:7)	P5601(94:6)	P5028(93:7) P5708-1(93:7) P5038(93:7)	P5016(90:10)	<b>一般工业级</b>	P5418(96:4)	P5021(93:7) P5036(93:7)	P5601(94:6)	P5028(93:7) P5708-1(93:7) P5038(93:7)	P5016(90:10)
<b>Architectrual</b>	P5416(96:4) P5420(96:4)	P5032(93:7)	P5010(93:7) P5012(93:7) P5018(93:7) P5019(93:7)	P5706-2(93:7)	P5015(90:10)	<b>建筑等级</b>	P5416(96:4) P5420(96:4)	P5032(93:7)	P5010(93:7) P5012(93:7) P5018(93:7) P5019(93:7)	P5706-2(93:7)	P5015(90:10)
<b>SuperDurable</b>	P9588(96:4)	P9510(93:7)	P9570(93:7) P9580(93:7)		P9590(90:10)	<b>超耐候等级</b>	P9588(96:4)	P9510(93:7)	P9570(93:7) P9580(93:7)		P9590(90:10)

## Longcester HAA Curing Resins

## 龙彩HAA固化聚酯树脂

<b>Industrial</b>			P8660(95:5) P8670(95:5)			<b>一般工业级</b>			P8660(95:5) P8670(95:5)		
<b>Architectrual</b>	P8300(96.5:3.5) P8350(96.5:3.5)		P8550(95:5) P8650(95:5) P8510(95:5)		P8800(92:8)	<b>建筑等级</b>	P8300(96.5:3.5) P8350(96.5:3.5)		P8550(95:5) P8650(95:5) P8510(95:5)		P8800(92:8)
<b>SuperDurable</b>	P9588(96.5:3.5)		P9580(95:5)		P9590(92:8)	<b>超耐候等级</b>	P9588(96.5:3.5)		P9580(95:5)		P9590(92:8)

# Longcester® Powder Coating Resins Product Portfolio

龍彩粉末涂料树脂系列



Application



应用领域



## Longcester Hydroxylated Polyester Resins

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

## 龙彩羟基聚酯树脂

一般工业级	P1000(87:13)	P1600(70:30)
	P1000H(93:7)	
	P1200(80:20)	

## Longcester Fluorocarbon Resins

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

## 龙彩氟碳树脂

氟碳等级	LF720(83:17)
	LF740(83:17)
	LF760(83:17)

## Longcester Hybrid Resins

Interior	P3305-2(70:30)	P3306-3(70:30)	P3317(70:30)	P3319(70:30)
	P3312(70:30)	P3307-2(70:30)	P3408(60:40)	P3505(50:50)
		P3403-2(60:40)	P3503(60:40)	
		P3413(60:40)	P3504(50:50)	
		P3501-2(50:50)		
		P3506(50:50)		

## 龙彩混合型聚酯树脂

户内应用	P3305-2(70:30)	P3306-3(70:30)	P3317(70:30)	P3319(70:30)
	P3312(70:30)	P3307-2(70:30)	P3408(60:40)	P3505(50:50)
		P3403-2(60:40)	P3503(60:40)	
		P3413(60:40)	P3504(50:50)	
		P3501-2(50:50)		
		P3506(50:50)		

# Longcester® Powder Coating Resins Product Portfolio

龍彩粉末涂料树脂系列



## Longcester TGIC Curing Resins

## 龙彩TGIC固化聚酯树脂

Cure 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°C	P5416	P5601	P5706-2	P5015	200°C	P5416	P5601	P5706-2	P5015
	P5418		P5010	P5016		P5418		P5010	P5016
	P5420		P5012	P9590		P5420		P5012	P9590
	P9588		P5018			P9588		P5018	
			P5019					P5019	
			P5021					P5021	
			P5032					P5032	
			P5036					P5036	
			P5038					P5038	
			P9510					P9510	
			P9570					P9570	
			P9580					P9580	
	180°C					P5708-1		180°C	
140°C			P5028	140°C			P5028		

## Longcester HAA Curing Resins

## 龙彩HAA固化聚酯树脂

Cure 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°C	P9588	P9580		P9590	200°C	P9588	P9580		P9590
180°C	P8350	P8550		P8800	180°C	P8350	P8550		P8800
	P8300	P8650				P8300	P8650		
		P8660					P8660		
		P8670					P8670		
160°C		P8510			160°C		P8510		

Longcester®  
Powder Coating Resins  
Product Portfolio  
龍彩粉末涂料树脂系列



Longcester Hydroxylated Polyester Resins

龙彩羟基聚酯树脂

Cure 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°C	P1000H	P1000	P1200	P1600	200°C	P1000H	P1000	P1200	P1600

Longcester Fluorocarbon Resins

龙彩氟碳树脂

Cure Temp.	83:17(HV~40)	固化温度	83:17(羟值~40)
200°C	LF720 LF740 LF760	200°C	LF720 LF740 LF760

Longcester Hybrid Polyester Resins

龙彩混合型聚酯树脂

Cure 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°C	P3501-2 P3506	P3403-2 P3413	P3305-2 P3306-3 P3307-2 P3312	200°C	P3501-2 P3506	P3403-2 P3413	P3305-2 P3306-3 P3307-2 P3312
180°C	P3503 P3504	P3408	P3306-3 P3317	180°C	P3503 P3504	P3408	P3306-3 P3317
160°C	P3505		P3319	160°C	P3505		P3319



Typical Properties For Longcester TGIC Resins

龙彩TGIC固化树脂典型特性

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°C/Pa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties	产品	比例	酸值 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
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。
P5010	93:7	30~36	30~40	~65	200°C/10'	Yes	Yes	High weather durability, medium reactivity, good flow, outstanding mechanical properties, meet AAMA2604 requirement, suitable for high gloss finish.	P5010	93:7	30~36	30~40	~65	200°C/10'	Yes	Yes	具有超耐候性, 中等反应树脂, 流平性好, 具有优异的机械性能, 符合AAMA2604要求, 适合高光产品。
P5012	93:7	30~36	30~40	~60	200°C/10'	No	Yes	Slow curing, good flow for outdoor high gloss application or semi-gloss application. It's suitable for outdoor architectural application. Qualicoat I compliant.	P5012	93:7	30~36	30~40	~60	200°C/10'	No	Yes	慢速反应树脂, 适用于户外平面高光效果或半光效果, 应用于户外建筑, 符合QUAUCOAT类要求。
P5018	93:7	30~36	35~45	~62	200°C/10'	Yes	Yes	Medium curing, good flow and mechanical performance. Suitable for architectural application. Tribo resin.	P5018	93:7	30~36	35~45	~62	200°C/10'	Yes	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, 摩擦树脂。
P5019	93:7	30~36	35~45	~62	200°C/10'	No	Yes	Excellent mechanical performance and flow properties, 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。
P5021	93:7	30~36	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	30~36	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。
P5028	93:7	30~35	25~35	~64	140°C/20'	No	Yes	Low temperature cure, good flow, excellent outdoor durability. Suitable for coil powder coatings.	P5028	93:7	30~35	25~35	~64	140°C/10'	No	Yes	低温固化, 优异的户外耐久性、流平性能和机械性能, 适合做工程机械和卷钢粉末效果。
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。





Typical Properties For Longcester TGIC Resins

龙彩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
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。
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。
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。
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	慢速反应的脂，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。
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。
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。
P9580	93:7	30~36	30~40	~62	200°C/15'	No	Yes	Super durable polyester resin which is suitable for outdoor architectural, high gloss and semi-gloss application. Qualicoat II compliant.	P9580	93:7	30~36	30~40	~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。



Typical Properties For Longcester HAA Resins

龙彩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
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。
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。
P8510	95:5	30~35	45~55	~62	160°C/10'	No	Yes	Low temperature cure, fast reactivity, good outdoor durability, good flow. Outstanding mechanical properties.	P8510	95:5	30~35	45~55	~62	160°C/10'	No	Yes	低温固化, 快速反应树脂, 良好的户外耐候性和流平性, 优异的机械性能。
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。
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。
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初容能, 摩擦树脂, 适用于户外建筑产品。
P8670	95:5	30~35	30~40	~64	180°C/10'	No	Yes	High Tg, fast curing, good flow and flexibility. Outdoor durable, gas oven yellowing.	P8670	95:5	30~35	30~40	~64	180°C/10'	No	Yes	高Tg, 快速反应树脂, 优异的流平性能与柔初性能, 燃气炉耐黄变树脂。
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, fast curing, for matt dry blend with P9588. 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

Product	Ratio	Hydroxyl Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties
P1000	87:13	20~25	60~70	~60	200°C/15'	No	Yes	Medium curing good flow and mechanical performance. Suitable for industrial application
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.
P1600	70:30	90~100	60~70	~60	200°C/15'	No	Yes	Medium curing, good flow, mechanical performance and chemical resistance.
P1000H	93:7	35~45	80~90	~60	200°C/15'	No	Yes	Medium curing, good mechanical performance, suitable for wrinkle finish. Architectural grade.

### 龙彩PU树脂典型特性

产品	比例	羟值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦树脂	燃气炉树脂	特点
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	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	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	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

Product	Ratio	Hydroxyl Value mgKOH/g	Viscosity 200°CPa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties
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.
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.
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.

### 龙彩氟碳树脂典型特性

产品	比例	羟值 mgKOH/g	粘度 200°CPa.S	Tg °C	固化条件	摩擦树脂	燃气炉树脂	特点
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	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	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

龙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	羟值 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。
P3312	70:30	30~35	40~50	~56	200°C/10`	No	No	Good flow, outstanding mechanical properties. Suitable for high gloss effect.	P3312	70:30	30~35	40~50	~56	200°C/10`	No	No	优异的流平性能与机械性能, 适用于高光产品
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 cure, good flow and mechanical performance, suitable for high gloss surface.	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。
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。
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。
P3503	50:50	60~65	30~40	~58	180°C/10`	No	No	Medium cure, good flow effect and mechanical performance.	P3503	50:50	60~65	30~40	~58	180°C/10`	No	No	中等反应树脂, 优异的流平性能与机械性能。

# Longcester<sup>®</sup> Polyester Resins 龍彩聚酯树脂



## Typical Properties For Longcester Hybrid Resins

Product	Ratio	Acid Value mgKOH/g	Viscosity 200°C Pa.S	Tg °C	Cure Cycle	Tribo	Gas oven	Properties
P3504	50:50	58~65	20~30	~56	180°C/10'	No	No	Fast curing, good flow and mechanical performance
P3505	50:50	65~75	20~30	~56	160°C/10'	No	No	Fast curing, good balance of flow and mechanical properties.
P3506	50:50	68~75	20~40	~60	200°C/10'	No	No	Medium curing good flow, good storage stability.

## 龙彩混合型聚酯树脂典型特性

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
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	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	中等反应树脂, 流平好, 储存性能好。





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