

亚什兰船用胶衣和树脂

Ashland Marine Solution

	名称 Name	特性和应用领域 Characteristics & Applications
胶衣 Gelcoat	MAXGUARD™ SX XXXXXX S	最新型的豪华游艇用胶衣。具有优异的抗日照泛黄性、抗粉化性，优异的耐水性能，高的抗冲击性和优异的外观效果。劳氏船级社认证Premium yacht gelcoat based on a polymer modified isophthalic-NPG polyester resin. With excellent UV resistance, very good water resistance and very good impact resistance, Lloyds Certificates
	MaxGuard™ GN XXXXXX S	高级船用胶衣，杰出的耐候性和耐水性。劳氏船级社和挪威D.N.V.认证。Premium gelcoat, Iso-NPG basted, excellent UV resistance and hydrolysis resistance, Lloyds and D.N.V Certificates
	MaxGuard™ LE XXXXX S	具有低挥发专利技术的高级船用胶衣。Premium boat gelcoat with Ashland's Patented Low Emission(LE) technology.
	MaxGuard™ GM XXXXX S	彩色珠光胶衣,间苯新戊二醇基体，具有珠光装饰效果。 Pearlescent gelcoat, isso-NPG base.
	Enguard™ GE XXXXXX S/H	好的耐候性和耐水性，经英国劳氏船级社认可用于造船。 Good UV and hydrolysis resistance complies with Lloyds rules for construction of small crafts.
船用不饱和 和树脂 Resin	Aropol™ M105 series resin	低挥发船用树脂，触变，预促进。经英国劳氏船级社和挪威D.N.V.认可用于造船。 Low emission thixotropic accelerated resin, Complies with Lloyds and D.N.V rules for construction of small crafts.
	AROPOL G 235 series resin	低苯乙烯含量，预促进，真空导入树脂。经过英国劳氏船级社可用于造船。 low styrene content preaccelerated infusion resin. Lloyd's Register for construction of small crafts.
	Aropol™ K530 series resin	间苯树脂，经英国劳氏船级社和挪威D.N.V.认可用于造船。 Thixotropic iso based complies with Lloyds and D.N.V rules for construction of small crafts.
	Aropol™ F207 Fire retardant resin	反应型阻燃树脂，经英国劳氏船级社认可用于造船，挪威D.N.V.认可用于救生艇Non-filled fire retardant resin, complies with Lloyds rules for construction of small crafts and D.N.V. rules for lifeboats.
船用乙烯基树脂 Vinyl ester	AME™ 5000 AME™ 6000 T-35 AME™ 6000 INF	改性环氧乙烯基树脂，苯乙烯含量少于35%,专为造船设计。 AME™ 5000, AME™ 6000 T-35用于积层和防水层。 AME™ 6000 INF 用于真空导入工艺。 Modified epoxy vinyl ester, less than 35% styrene, special design for boats. AME™ 5000, AME™ 6000 T-35 for lamination and skin coat. AME™ 6000 INF for infusion process
粘结剂 Bonding paste	Enguard™ TH72	通用型，粘结船壳体。 All-a-round bonding paste, assembling of parts
	Enguard™ TH75	纤维增强型，用于粘结船壳体部件。 Thixotropic bonding paste containing fibres and catalyst indicator, good mechanical strength

*以上仅为部分产品介绍，如欲了解亚什兰应用于此行业中的更多产品信息，请与亚什兰直接联系

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船舶
Marine

ASHLAND

亚什兰防腐树脂

Ashland Corrosion Resistant Solution

Name 名称	Characteristics 特性	Applications 应用
DERAKANE MOMENTUM 411-350 HETRON 922	Epoxy vinyl ester resins. HDT is 105°C. Corrosion resistant to both strong acids and bases. Inherent toughness provides fabrication advantages and resistance to both impact and thermal shock damage. 环氧乙烯基酯树脂, 热变形温度达105°C。对强酸和碱均有很好的耐腐蚀性。材料本身固有的韧性有利于成型工艺。耐冲击及热冲击。	Equipment where strong acids and bases are encountered. Meets FDA regulatory title 21 CFR177.2420. It can be used for hand lay-up, spray-up, filament winding, flake glass, filled linings and coating compounds. 会遇到强酸和碱的设备。符合FDA标准21 CFR177.2420。适合手糊、喷射、缠绕、玻璃鳞片、内衬及涂料工艺。
DERAKANE MOMENTUM 470-300 HETRON 970/35	A highly crosslinked epoxy novolac epoxy vinyl ester resin. Better solvent resistance than any other epoxy vinyl ester. High heat resistance-HDT 150°C. 一种高交联酚醛环氧乙烯基酯树脂, 具有比其他环氧乙烯基酯树脂更好的耐溶剂性。热变形温度高达150°C。	Equipment where maximum thermal properties or solvent resistance is required. It can be used for hand lay-up, spray-up, filament winding, flake glass, filled linings and coating compounds. 需要耐极高温或溶剂的设备。适合手糊、喷射、缠绕、玻璃鳞片、内衬及涂料工艺。
DERAKANE MOMENTUM 510C-350 HETRON FR992	Flame resistant version of bisphenol-A epoxy vinyl ester resin whose HDT is 108°C. 双酚A环氧乙烯基酯树脂的阻燃版, 热变形温度达108°C。	Flame resistant equipment requiring the corrosion resistance and toughness of bisphenol-A epoxy vinyl ester resin. 适合于双酚A乙烯基酯树脂的耐腐蚀和韧性设备, 且需要阻燃的场合。
HETRON 197	A chlorendic polyester resin. Highly corrosion and heat resistant whose HDT is 140°C. Low flame spread can be achieved with appropriate version. 一种氯氰酸聚酯树脂, 具有很好的耐腐蚀和耐热性, 热变形温度达140°C。合适的版本具有很低的火焰扩展速率。	Equipment where maximum corrosion and heat resistance are required. For hot, wet chlorine and other highly oxidizing environments. Not for caustic service. Applications include filament wound and hand lay-up tanks, pipes, pumps, stacks, scrubbers and other equipment handling highly corrosive gasses, vapors or liquids. 高耐腐蚀和耐热设备, 尤其适用热的湿氯气和其他强氧化环境。不耐碱腐蚀。应用领域包括缠绕和手糊储罐、管道、泵、淋洗塔以及其他一些处理强腐蚀性气体、蒸汽或液体的设备。

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防腐系列
Corrosion Resistance

ASHLAND

陆上运输

Ashland Land Transportation Solution

	名称 Name	特性和应用领域 Characteristics & Applications
胶衣 Gelcoat	Enguard™ GEX XXXXXX S/H	间苯型打磨胶衣, 用于需打磨和喷漆的部件, 如保险杠, 巴士前后围等。 Sanding gelcoat Iso-phthalic base. For products will be sanded and painted.
	Enguard™ GE XXXXXX S/H	间苯型胶衣, 用于卡车、客车车顶, 内饰件等Iso-phthalic base gelcoat. For truck, bus roof and internal decorations, etc.
	Enguard™ GFE XXXXXX S/H	间苯型阻燃胶衣, 用于地铁、轻轨和客车车厢的桌椅、内饰 Fire retardant gelcoat. For subway, train car, desks, washroom and internal decorations, etc.
	Enguard™ GFN XXXXXX S/H	间苯新戊二醇型阻燃胶衣, 用于地铁、轻轨和客车车厢的桌椅、内饰 Fire retardant gelcoat. For subway, train car, desks, washroom and internal decorations, etc.
	Enguard™ SR XXXXXX	高阻燃、抗分色间苯新戊二醇型胶衣, 用于地铁、轻轨和客车车厢的桌椅、内饰。 High fire retardant and anti-flocculation performance gelcoat. For subway, train car, desks, washroom and internal decorations, etc.
	MaxGuard™ FR XXXXXXS/H	高阻燃间苯新戊二醇型胶衣, 不含卤素, 更低的烟密度, 用于地铁、轻轨和客车车厢的桌椅、内饰。 High fire retardant Iso-NPG gelcoat, no halogen and lower smoke density. For subway, train car, desks, washroom and internal decorations, etc.
树脂 Resin	通用树脂 AROPOL™ M105	邻苯型低挥发通用树脂, 触变预促进, 具有优异的纤维浸润性和易加工性, 低放热可以连续多层积层, 采用手糊和喷射工艺制造常用复合材料部件。Low emission orthophthalic resin, thixotropic and pre-accelerated resin with very good wetting ability for glass fibre, very low peak exotherm temperature which suitable to build up of laminate thickness of 2-10 mm. Resin is suitable for spray-up and hand lay-up processes for fabricating general composites.
	Aropol™ M251	邻苯型低苯乙烯挥发树脂, 具有较高的热变形温度, 特别推荐用于汽车部件, 喷射和手糊均可。Low emission orthophthalic resin, high heat deflection temperature, is suitable for spray-up and hand lay-up processes to make transportation part.
	HETRON™ F240TF	阻燃型特殊邻苯不饱和聚酯树脂, 该树脂含有多种填料。本树脂阻燃分类为M2F2。适用于手糊、喷射和冷压成型, 该树脂被推荐用于要求好的阻燃和低烟毒场合, 如建筑(洁具等)和运输(铁路、地铁等)。适合手糊、喷射等工艺。Fire resistant, unsaturated polyester resin. This resin contains different fillers and is based on a specific orthophthalic acid. Suitable for hand lay-up, spraying and cold press. This resin is recommended where good fire resistance and low toxicity smokes are needed; e.g. for construction (sanitary etc.) and transportation (railways, subway, etc.).
	HETRON™ F805TF	阻燃型不饱和聚酯树脂, 该树脂分子含卤素并结合多种有机和矿物填料, 但不含氯和氮。单体为苯乙烯和甲基丙烯酸甲酯。本树脂阻燃分类为MIF2。适用于手糊, 喷射和冷压工艺。推荐使用在要求好的阻燃和低烟毒场合, 如运输, 建筑和工业零件。Fire resistant, unsaturated polyester resin. It contains halogens built in the molecule as well as mineral and organic fillers. F805TF resin does not contain chlorine or azote. The monomer is made of styrene and methyl methacrylate. F805TF is classified MIF2. Suitable for hand lay-up, spraying and cold press. It is recommended when good fire resistance properties and low toxicity smokes are needed: transport, building, industrial parts.
	MODAR™ 系列树脂	MODAR 系列树脂是一种改性的丙烯酸型树脂, 具有低粘度, 适合多种成型工艺的特点, 添加大量氢氧化铝可满足各种严格的低烟, 低毒的阻燃条件。用于地铁、轻轨和客车车厢的桌椅、内饰等, 以替代传统的钢材, 铝合金, 石材, 木材等。MODAR resins are based on non-halogenated modified acrylic polymer chemistry. It can be used with all composite fabrication process. Filler such as ATH can be added to the resin to improve the fire retardant, low smoke & toxicity performance. For subway, train car, desks, washroom and internal decorations, etc.

注:F240TF, PR1804, F805TF和F245TF可满足中国铁道部[2000]166号文《非承载件纤维增强塑料技术要求》的不同指标

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Land Transport

ASHLAND

模压、拉挤用不饱和聚酯树脂和产品

Ashland Press Molding, Pultrusion Solution

	名称 Name	特性和应用领域 Characteristics & Applications
SMC/BMC树脂 SMC/BMC RESIN	Aropol MR 1304	邻苯型聚酯树脂，与低收缩剂混合用于SMC/BMC工艺，可用于卫生间洗脸池、浴缸、淋浴间及汽车部件。One kind of orthophthalic polyester resin, mix with low profile additive can be used for SMC/ BMC process. The main products are washbowls of the bathroom, bathtub, shower room and some automotive parts.
	Aropol MR 14029	间苯新戊二醇型聚酯树脂，中等粘度，可增稠，可用于注射或模压工艺，与低收缩剂混合可用于SMC片材制造。具有优异的电性能和耐候性。One kind of ISO/NPG polyester resin, medium viscosity, thickenable, high reactivity, used for injection or compression molding process. Combined with LPA, it can be used for SMC manufacture.
	Aropol Q6585	高反应活性可增稠的聚酯树脂，适用于汽车A级表面制品以及低轮廓的通用模压制品。High reaction, thickenable polyester resin, used for class A surface products for automobile and general low profile molding products.
拉挤树脂 Pultrusion resin	Aropol 2036C	一种中等活性的间苯型聚酯树脂，适用于拉挤手柄、扶手、梯子等制品。One kind of isophthalic polyester resin with medium reactivity. Fit for pultruded handgrip, handrail, and ladders, etc.
	Aropol S380H	S 380H树脂是一种非触变，非促进，高活性邻苯型树脂。S 380H树脂被特别推荐用于拉挤和浇铸板材。S380H is a non-thixotropic, non-accelerated, orthophthalic based resin of high reactivity. It is especially recommended for pultrusion and solid surface.
	Aropol D1724-1	一种高活性聚酯树脂，专为拉挤工艺设计。具有优良的弹性、优良的韧性和优良的玻纤润湿性。适用于拉挤对表面光洁度要求较高的门框及薄壁制品。High reaction polyester resin, designed for pultrusion process. Good flexibility, good toughness and excellent glassfiber wet-out property. Fit for pultruding door frame or sheet with thin thickness.
低收缩添加剂 Low Profile/ Shrinkage Additive	MR63005K	PS型热塑性低轮廓添加剂，可加色料，控制收缩，提高表面质量，具有广泛的工艺适应性。可用于SMC/BMC、湿模压和拉挤工艺。Low profile additive of PS. Can control the shrinkage, enhance the surface quality of the products, and can be pigmented. It can be used for SMC/BMC, wet compression molding and pultrusion process.
	LP 4016 LP 40A LP 90	PVAC型低轮廓添加剂，粘接性能好，具有卓越的收缩控制，优良的表面质量。适用工艺广泛，可用于SMC/BMC，湿模压和拉挤工艺。LP 4016, LP 40A可增稠，LP 90不可增稠。Low profile additive of PVAC base. Good bonding property, excellent shrinkage control and perfect surface quality of the products. It can be used for SMC/BMC, wet compression molding and pultrusion process. LP 4016 and LP 40 are thickenable. LP 90 is non-thickenable.
	Q540	PMMA型轮廓添加剂，不可增稠，与树脂混合可制造低轮廓SMC。Low profile additive of PMMA base. Non-thickenable. Used as low profile additive in SMC manufacture.
增稠剂 Thickening agent	Mod M	Mod M是一种用于SMC配方中的B组分树脂，在SMC中应用具有一致的增稠效果。Modifier M is a B-side resin designed to consistently thicken SMC.
色浆 Color paste	SMC/BMC 专用色浆	RM系列色浆，具有耐高温且与高分散性能。RM series. It is stable on high temperature and good dispersion performance.

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闭模成型

Press Molding, Pultrusion

ASHLAND®

模具制作

Ashland Tooling Solution

	名称 Name	特性和应用领域 Characteristics & Applications
胶衣 Gelcoat	乙烯基模具胶衣 Enguard™ GT S/H Vinyl ester tooling gelcoat	<p> 基体树脂是用F-cat技术环氧改型的乙烯基树脂。树脂结构赋予最终的玻璃钢模具表面高机械强度、高光亮性、耐候耐化学性及柔韧性。有黑色和绿色。用于模具制作，分手刷和喷射型。 Epoxy modified vinylester with F-Cat Technology. The base resin and the formulations give good mechanical properties, good gloss and flexibility to final products. Also the chemical resistance is very good which is needed for polyester moulds. Available colors are black and green. Recommended for the manufacture of various mouldings. Suitable for brushing and spraying. </p>
树脂 Resin	改性乙烯基模具树脂 (Arotool 2001) Modified vinyl ester tooling resin	<p> 乙烯基型聚酯树脂高固含量、触变性、已促进的树脂，苯乙烯单体含量少于35%，表现出优良润湿和使用性能，低收缩、显示了优良的抗冲性，不开裂，没裂缝。具有优良的耐热降解性能，在高温下有优越的强度保留，热变形温度高，在模压中对苯乙烯有优良的耐侵蚀性能，减少纤维形态的转移。 可以手糊、喷射、冷模压和RTM等工艺制造FRP工具和模具，适用于船舶制造、浇注、汽车和电子工具领域，用来制造要求寿命长，外观、表面优良的部件。 • Less than 35% monomer • Low shrink • Excellent handling characteristics • Extended tool life – more cycles per tool • Excellent strength retention at elevated temperatures • High heat distortion temperature (HDT) • Excellent resistance to styrene attack • Reduced fiber pattern transfer AROTOOL 2001 resin can be used in the fabrication of FRP tooling and molds that are used for the production of FRP molded products by hand lay-up, spray-up, cold molding and RTM process techniques. AROTOOL 2001 resin is suited for marine, casting, automotive and electrical tooling applications where long life, good profile and excellent appearance of finished parts are required. </p>
	TR138	<p> 触变型，间苯型基体的不饱和聚酯树脂。 用于制作中等质量要求的模具增强层树脂。 Thixotropic resin based on iso-phthalic acid. For the manufacture various mouldings by spraying and hand lay-up. </p>
	TR583	<p> 触变型，邻苯型基体的不饱和聚酯树脂。 用于制作要求不高的模具增强层树脂。 Thixotropic resin based on ortho-phthalic acid. For the manufacture various mouldings by spraying and hand lay-up. </p>

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---- cast marble & solid surface

	名称 Name	特性和应用领域 Characteristics & Applications
胶衣 Gelcoat	MaxGuard™ SX xxxxxx S	杰出的耐候性、耐热水性、保光性, 适合高档的卫浴产品. Premium gelcoat ,eximious UV and hydrolysis water resistance, gloss protect , for premium sanitary products
	MaxGuard™ GN xxxxxx S	优异的耐候和耐热水性能, 适合高档的卫浴产品。Premium gelcoat , excellent UV and hydrolysis water resistance , for premium sanitary products
	MaxGuard™ GN0000 SC	优异的耐候和耐热水性能, 经英国劳氏船级社和挪威D.N.V认证, 适合高档的仿玛瑙及透明卫浴产品。Premium clear gelcoat ,excellent UV and Hot water resistance , complies with Lloyd's and D.N.V rules for premium transparency culture marble or onyx products
	MaxGuard™ GM***** S	间苯新戊二醇基体, 具有珠光装饰效果。Premium gelcoat ,pearlescent.
	Enguard™ GE***** S/H	良好的耐候性和耐水性, 适用通用的卫浴产品。 good UV and Water resistance , for general sanitary products
树脂 Resin	AROPOL™ 7132 series resin	非触变、预促进, 高品质间苯新戊二醇型浇注树脂, 通过美国ANSI Z124.6-1990测试, 具有优异的机械强度、耐老化和抗污性能, 特别推荐制作高品质的人造石实体面材。non-thixotropic, pre-accelerated , high quality ISO-NPG casting resin. Passed USA ANSI Z124.6-1990 test. Recommend for high quality solid surface application.
	AROPOL™ S138 series resin	非触变、非促进, 间苯型浇注树脂, 具有优良的耐老化、抗污性能和高透明度, 适用于制造高性能人造石、台面板。non-thixotropic, non-accelerated , ISO-resin. Excellent UV , stain resistance and transparency , Recommend for high quality culture marble and solid surface.
	AROPOL™ S 194 series resin	非触变, 非促进, 通用邻苯型浇注树脂, 具有填充率高、透明度好, 适用于制造各种通用人造石、实体面材。non-thixotropic, non-accelerated , general Orth-resin casting resin. High filler ratio ,good transparency, Recommend for general cultrre marble and solid surface application.
	AROPOL™ S 380 series resin	非触变, 预促进, 高活性邻苯型浇注树脂, 具有较高的机械性能和表面硬度, 可添加高含量填料; 特别推荐用于具有高强度人造石、实体面材、有色颗粒及聚酯混凝土制品。non-thixotropic, pre-accelerated casting resin of high reactivity. High filler ratio. Especially recommend for high strength culture marble ,solid surface and polyester concrete.
	POLARIS® MR11109 series resin	树脂是一种色浅, 非触变, 预促进, 弹性抗开裂的不饱和浇注树脂, 具有卓越的透明度性能, 特别适合用于制作清澈透明的产品, 如实心球, 珠宝饰品, 镶嵌标本等。non-thixotropic, pre-accelerated, crack and craze resistance ,excellent transparency and low color.It can be used for casting object into clear ,transparent pieces, such as ,solid spheres, jewelry ,imbedding specimens

*以上仅为部分产品介绍, 如欲了解更多亚什兰在此行业中的产品信息, 请与亚什兰直接联系

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---- wind power, continues panel and etc

	名称 Name	特性和应用领域 Characteristics & Applications
胶衣 Gelcoat	ENGUARD™ GP XXXXXX S/H	可采用喷射和手刷工艺制造城市公共设施，民用和工业用的冷却塔等。orthophthalic polyester gelcoat. It is recommended for manufacturing civil appliance, cooling tower, etc.
	ENGUARD™ GE XXXXXX S/H	可采用喷射和手刷工艺制造交通工具，游乐设施，冷却塔等。Isophthalic polyester gelcoat. It is recommended for manufacturing transportation, recreation equipment, cooling tower, facade panels, etc.
	MAXGUARD™ GN XXXXXX S/H	可采用喷射和手刷工艺制造对耐久性及耐候性要求较高的产品。ISO-NPG polyester gelcoat. It is recommended for the products which good water resistance and good resistance for UV light required.
树脂 Resin	通用树脂AROPOL™ M105	邻苯型低挥发通用树脂，触变预促进，具有优异的纤维浸润性和易加工性，低放热可以连续多层积层，采用手糊和喷射工艺制造常用复合材料部件。Low emission orthophthalic resin, thixotropic and pre-accelerated resin with very good wetting ability for glass fibre, very low peak exotherm temperature which suitable to build up of laminate thickness of 2-10 mm. Resin is suitable for spray-up and hand lay-up processes for fabricating general composites.
	透明板材树脂AROPOL™ G 194 L	一种光稳定，邻苯型树脂，专用于制作高透明度的采光板。G 194 L is a light stabilized orthophthalic resin, and designed for the manufacture of continues translucent panels.
	通用阻燃树脂 HETRON™ F240TF	添加型邻苯阻燃不饱和树脂，适用于手糊，喷射和冷压，可用于需要有好的阻燃要求和低烟毒场合，如建筑，运输行业。F240TF is a fire retardant, unsaturated polyester resin, This resin contains different fillers and based on a specific orthophthalic acid. The resin is suitable for hand lay-up, sprayup and cold press, is recommended when good fire retardant and low toxicity smokes are needed; e.g. for construction and transportation.
	AROPOL™ G194-70RT	邻苯型树脂,低粘度，快速浸润，适合RTM/Infusion工艺。Orthophthalic resin, low viscosity and fast wetting of glass fibre, designed for RTM/Infusion process.
	高强度邻苯树脂 AROPOL™ M 300	高强度，高活性的邻苯树脂，HDT>80℃。采用手糊，喷射工艺制造需耐热，耐水及强度高的复合材料，如风力发电机的叶片等。High reactivity, orthophthalic acid based resin, HDT>80℃, good mechanical properties, hydrolysis resistance, the resin can be used for oil tanks, car parts, wind motor blades.
	高强度邻苯树脂 AROPOL™ G 300	高强度，高活性的邻苯树脂，优良的力学性能和工艺性能。推荐用于注射和真空辅助成型制作大型风车叶片。High reactivity, orthophthalic acid based resin, good mechanical properties and process property for vacuum infusion processes, can be used for wind turbine blades.
	MODAR™ 系列树脂	MODA R 系列树脂是一种改性的丙烯酸型树脂，具有低粘度，适合多种成型工艺的特点，添加大量氢氧化铝可满足各种严格的低烟，低毒的阻燃条件。可用于制造建筑外墙装饰，罗马柱，门窗，天花板等，以替代传统的钢材，铝合金，石材，木材等。MODAR resins are based on non-halogenated modified acrylic polymer chemistry. MODAR resins can be used with all composite fabrication process. Filler such as ATH can be added to the resin to improve the fire retardant, low smoke & toxicity performance. It has been used to manufacture baseboards, columns, doors, facades, fascia panels, roof slates, window frames, etc. MODAR resins have been specified by architects and engineers to replace traditional materials of construction like steel, aluminum, wood, stone and concrete.
	透明浇注树脂 POLARIS® MR11109	MR 11109树脂是浅色、预促进、弹性抗开裂的不饱和聚酯树脂。它具有卓越的透明性能，与普通的透明浇注树脂相比，将开裂现象减少到最少。它被用于制造清澈透明的浇铸产品，如实心球、珠宝饰品、镶嵌标本或镇纸等。Crack and craze resistance, excellent transparency and low color. It can be used for casting objects into clear, transparent pieces, such as, solid spheres, jewelry, imbedding specimens or paperweights.

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