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聚氨酯添加剂

POLYURETHANE

Catalyst | Additive | FR

合佳&合汇 HEJIA & HEHUI



关于我们 ABOUT US

Our company have been servicing the polyurethane industry for over two decades. We also expanded our business scope to Alkyl Polyglucoside and green solvent few years ago to achieve our corporate mission of providing wide range of products and solution to the industry around the green concept; may it be better thermal insulation, more environmental friendly products and technology to meet latest industrial challenges
We Hejia Chemical Products is strived to providing excellent service, good quality products and full spectrum of products to the industry we serve

Tell us more

我公司深耕聚氨酯行业二十余年，秉承绿色环保的企业理念，为了给客户提供更多的产品选择和解决方案，近年来我司开拓了烷基糖苷绿色表活和环保溶剂产品线
我公司致力于为您提供更好的技术，更环保的产品来满足您的需求

硬质泡沫添加剂 Additives for rigid foam applications

牌号 Brand	家电 Appliance	板材 Panel	喷涂 Spray	大块泡 Bunstock	管道 Pipeline	仿木 Artificial wood
胺催化剂 Amine Catalyst						
BA100	x	x	x	x	x	x
BA101	x	x	x	x	x	x
BDMA	x	x	x	x	x	x
DMDEE			x			
DMEA		x	x	x	x	x
DMCHA	x	x	x	x	x	x
PMDETA	x	x	x	x	x	x
LA141	x	x	x	x	x	x
LA130			x	x	x	x
LA131	x	x	x	x	x	x
LA132	x		x	x	x	x
LA105		x	x	x	x	x
LA107		x	x	x	x	x
LA160	x	x	x	x	x	x
LA170		x	x	x	x	x
LA110		x	x	x	x	x
LA150		x	x	x	x	x
TA275			x			
TA550		x				
TM322			x			
TM273		x				
TA2070	x	x	x	x	x	x
TA2071	x	x	x	x	x	x
TA2072	x	x	x	x	x	x
SP1001			x			
SF001			x			
AP515	x					
BE2302			x			
GS-4000			x			
金属催化剂 Metal Catalyst						
KAC			x	x		x
MC115			x	x		x
MC115LV			x	x		x
MC145			x	x		x
PR100	x	x	x	x	x	x
阻燃剂 Flame Retardant						
TCPP	x	x	x	x	x	x
TCEP	x	x	x	x	x	x
TEP	x	x	x	x	x	x

Properties	产品性能
胺催化剂 Amine Catalyst	Trademark: Hegrecat
100% BDMAEE	100%双二甲氨基乙基醚
70% BDMAEE in DPG	70% BDMAEE 和DPG复配
For curing and reduce friability	用于固化,降低易碎性
For 1-k or OCF	适用于单组份泡沫
Weak blowing catalyst	弱发泡型催化剂
Standard gel catalyst	标准凝胶型催化剂
Standard blow catalyst	标准发泡型催化剂
Triazine, improve cure	三聚催化剂,提供固化性能
DMP-30,weak trimer	2,4,6-三(二甲氨基甲基)苯酚,较弱的三聚催化剂
Balanced, low odor catalyst	平衡型,低气味催化剂
Standard trimer catalyst	标准的三聚催化剂
Bis-DMAPA. Reactive	双- (二甲氨基丙基) 甲胺,反应型催化剂
Surface cure	表面固化
To improve surface cure	改善表面固化
DMAEE. Reactive catalyst	二甲氨基乙氧基乙醇,反应型催化剂
Reactive blow catalyst	反应型发泡催化剂
Reactive catalyst	反应型催化剂
Reactive , use together with TA550	反应型催化剂,与TA550一起使用
Reactive, +TA275 for LD spray foam	反应型催化剂,与TA275一起用于低密度喷涂泡沫
Good stability in HFO	在发泡剂HFO系统中稳定
Good stability in HFO	在发泡剂HFO系统中稳定
Low odor, surface cure and adhesion	低气味催化剂,改善表面固化和粘结性
Good rise profile and surface cure	良好的上升曲线和表面固化
Reduced odor for spray	降低气味
Reduced demold time	减少脱模时间
Reduce vapor pressure of the LBA	降低LBA体系的蒸气压力
Emulsifier for high water	适用于高水喷涂配方的乳化剂
金属催化剂 Metal Catalyst	Trademark: Hegrecat
25% Potassium acetate in MEG	25%醋酸钾,75%乙二醇
75% Potassium octoate in DEG	75%异辛酸钾,25%二乙二醇
Low viscosity version of 75% potassium octoate solution	75%异辛酸钾溶液的低粘度版本
38% Potassium acetate in MEG	38%醋酸钾,62%乙二醇
Bismuth based, strong gel	具有较强凝胶性能的铋基催化剂
阻燃剂 Flame Retardant	Trademark: Hegrein
Tris(1-chloro-2-propyl) phosphate	磷酸三(1-氯-2-丙基)
Tris(2-chloroethyl) phosphate	磷酸三(2-氯乙基)酯
Triethyl phosphate	磷酸三乙酯

牌号 Brand	家电/天然气 LNG insulation	板材 Panel	喷涂 Spray	大块泡 Bunstock	现场浇筑 Pour in place	单组份/包装 One component foam / Package
有机硅表面活性剂 Silicone Surfactant						
R1001		x	x	x	x	
R1003	x					
R1004		x	x	x	x	
R1005		x	x	x	x	
R1007	x	x	x	x	x	x
R1070			x			x
R1443			x			
R2003	x	x	x	x	x	x
R2006	x					
R2009	x	x	x			
R2011	x					
R2012	x	x	x	x	x	
R2016	x	x	x	x	x	
R2026	x	x		x	x	
R2030	x	x	x	x	x	
R2060	x	x	x	x	x	
R3001						
R3003	x	x	x	x	x	
R3004	x	x	x	x	x	
R3005	x	x	x	x	x	
R3009	x		x	x		
R3010		x		x		
R3038					x	
R30380		x	x	x		



牌号 Brand	Properties	产品性能 Trademark: HiSilicone
有机硅表面活性剂 Silicone Surfactant		
R1001	General purpose	通用型硅油
R1003	Excellent cell structure & insulation property	出色的泡孔结构和绝缘性能
R1004	Excellent cell structure	出色的泡沫结构
R1005	Good flow and skin property	良好的流动性和表皮
R1007	General purpose	通用型硅油
R1070	Minimize shrinkage	减少泡沫的收缩
R1443	Good surface and adhesion	良好的表面和粘结性
R2003	141b general applications	适用于发泡剂141b体系的硅油
R2006	Excellent cell structure & insulation property	出色的泡孔结构和绝缘性能
R2009	Excellent cell structure & insulation property	出色的泡孔结构和绝缘性能
R2011	Excellent cell structure & insulation property	出色的泡孔结构和绝缘性能
R2012	Good stabilization and emulsification for water and HFO	良好的稳定性和乳化性, 适用于全水和HFO系统
R2016	Good emulsification and compatibility	良好的乳化性和相溶性
R2026	Hydroscopic nature. Good flow and nucleation	良好的流动性和成核性
R2030	Fine cell structure, flow with excellent insulation	良好的泡孔结构和流动性, 优异的绝缘性能
R2060	Fine cell structure, flowability for HFO system	良好的泡孔结构和流动性, 适用于发泡剂HFO系统
R3001	Good emulsification and compatibility	良好的乳化性和相溶性
R3003	Fine cell structure and flow	良好的泡孔结构和流动性
R3004	Fine cell structure, flow with excellent insulation	良好的泡孔结构, 流动性和绝缘性能
R3005	Excellent insulation property, low K value	出色的绝缘性能, 低导热系数
R3009	Good stabilizaiton and emulsification	良好的稳定性和乳化性
R3010	Fine cell structure, flow, good skin	良好的泡孔结构, 流动性和表皮
R3038	Headline semi-rigid foams with open cell	主要用于半硬泡汽车顶棚, 开孔性能好
R30380	Improved strength and smooth surface	改善强度和表皮

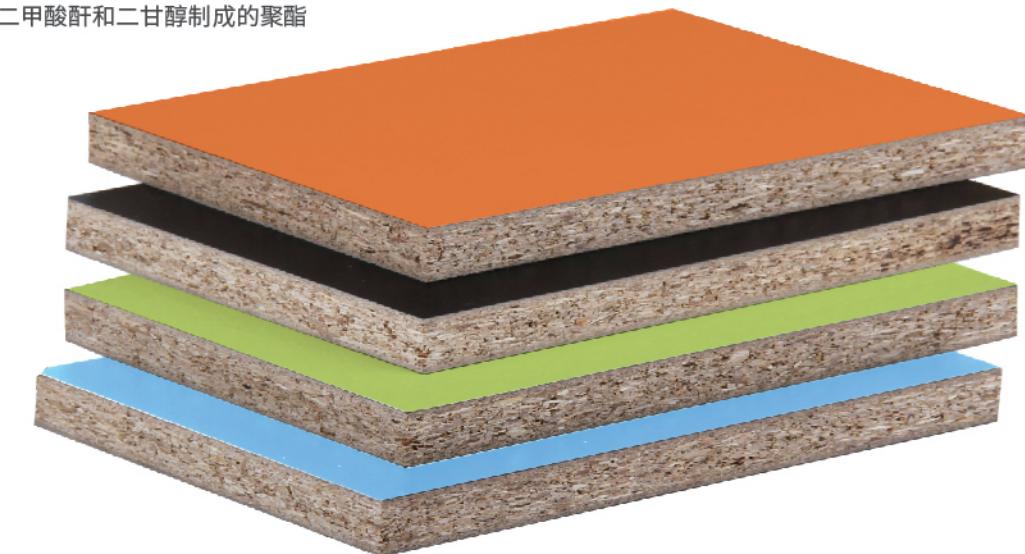


牌号 Brand	羟值 OH value (mg KOH/gm)	粘度 Viscosity cPS, 25°C	酸值 Acid value (mg KOH/gm)	水份 Water (%)
聚酯多元醇 Polyester Polyol				
1102	112 ± 5	2000-3000	≤ 0.5	≤ 0.1
0602	60 ± 5	4000-6000	≤ 1.0	≤ 0.1
1602	250 ± 5	40000-56000	≤ 2.0	≤ 0.1
1602HA	160 ± 10	2700-3300	≤ 1.0	≤ 0.1
1702	160 ± 10	2700-3300	≤ 2.0	≤ 0.1
2402N	175 ± 10	7000-10000	≤ 1.0	≤ 0.1
* 2402	240 ± 5	8000-10000	≤ 1.0	≤ 0.1
* 2402HA	240 ± 5	2500-3500	≤ 2.0	≤ 0.1
* 3202	240 ± 5	7000-9000	≤ 2.0	≤ 0.1
* 3202HA	305 ± 5	2500-3800	≤ 1.0	≤ 0.1
1902	300 ± 5	2500-3800	≤ 4.0	≤ 0.1
1803	190 ± 5	38000-48000	≤ 3.0	≤ 0.1
* 1852	180 ± 5	50000-70000	≤ 2.0	≤ 0.1
2752	185 ± 5	11000-12500	≤ 2.0	≤ 0.1
* 3752	275 ± 5	15000-23000	≤ 1.0	≤ 0.1
* 1552	372 ± 5	1200-2000	≤ 2.0	≤ 0.1
* 2502	250 ± 5	6000-8000	≤ 2.0	≤ 0.1
2703	276 ± 5	13000-18000	≤ 2.0	≤ 0.1
2302	250 ± 5	2500-3500	≤ 2.0	≤ 0.1
2302S	250 ± 5	4500-8000	≤ 2.0	≤ 0.1
* 2802	280 ± 10	6500-10000	≤ 2.0	≤ 0.1
3003	300 ± 10	2500-3500	≤ 2.0	≤ 0.1
2803	280 ± 10	18000-25000	≤ 1.0	≤ 0.1
2353	235 ± 10	10000-16000	≤ 1.0	≤ 0.1

牌号 Brand	连续线PUR板材 Continuous PUR panel	非连续线PUR板材 Discontinuous PUR panel	PIR板材 PIR panel	喷涂 Spray foam	现场浇筑 Pour in place	管道 Pipeline	胶黏剂 Adhesives	CASE体系 CASE / TPU
聚酯多元醇 Polyester Polyol							Trademark: Pelsol	
1102							X	X
0602							X	X
1602	X		X	X	X	X	X	X
1602HA			X	X		X	X	X
1702	X		X	X		X	X	
2402N	X		X	X	X	X	X	
* 2402	X		X	X	X	X	X	
* 2402HA	X		X	X	X	X	X	
* 3202	X		X	X	X	X	X	
* 3202HA			X	X	X	X	X	
1902			X	X	X	X	X	
1803			X	X	X	X	X	
* 1852	X		X	X	X	X	X	
2752			X	X		X	X	
* 3752	X		X	X	X	X	X	
* 1552	X		X	X		X	X	
* 2502	X		X	X	X	X	X	
2703	X		X		X	X	X	
2302	X		X		X	X		
* 2302S	X		X		X			
* 2802	X		X		X	X		
3003	X		X		X			
2803	X		X		X	X		
2353	X		X		X	X		

* Polyester made from pure PA and DEG

* 邻苯二甲酸酐和二甘醇制成的聚酯



软质大块泡沫添加剂 Additives for flexible slabstock applications

牌号 Brand	通用聚醚体系 Conventional polyether	高回弹 HR foam	慢回弹 Viscoelastic (VE) foam	火焰贴合 Flame lamination	超低密度 Ultra low density	聚酯体系 Polyester
胺催化剂 Amine Catalyst						
TEDA	x	x	x	x	x	x
TA101	x	x	x	x	x	x
TA101X	x	x	x	x	x	x
TA106	x					
TA113	x				x	
TA114	x				x	
BA100						
BA101	x	x	x	x	x	x
BA107	x	x	x	x	x	x
BA113	x	x	x	x	x	x
DMEA		x	x	x	x	x
LA200	x	x				
TA2070		x	x	x	x	x
DA3300	x	x	x	x	x	x
DA3301	x	x	x	x	x	x
DA300	x	x	x	x	x	x
金属催化剂 Metal Catalyst						
MC109	x					
有机硅表面活性剂 Silicone Surfactant						
F1001	x	++	+++	++		
F1002	x			++	++	
F1003	x	++	+++	++		
F1004	x	+++	++			
F1005	x			++	++	
F1006	x		++	++		
F1008	x			++	++	
F2001	x	++	++	++		
F2008	x		++	++		
F1021	x		++	++		
阻燃剂 Flame Retardant						
TEP	x	x	x	x	x	x
FR102	x	x	x	x	x	x
特殊添加剂 Special Additive						
TA122	x	x	x	x	x	x
G2100	x	x	x	x	x	x
FL120	x	x	x	x	x	x
HD600	x	x	x	x	x	x
Anti-yellow	x	x	x	x	x	x
FL190	x			x		x
EM1340	x					x

Properties	产品性能
胺催化剂 Amine Catalyst	
TEDA	三乙烯二胺
33% TEDA in DPG	33% 三乙烯二胺和67%二丙二醇
33% TEDA with reduced emission	使用反应型溶剂的液态三乙烯二胺
Wide processing latitude	宽泛的加工范围和良好的手感
High MC formulation	适用于高MC配方, 良好发泡性能
Good blow & with hardening effect	良好的发泡性能, 具有硬化效果
BDMAEE.Standard blow catalyst	100% BDMAEE, 标准的发泡型催化剂
70% BDMAE in DPG	70% BDMAE 和DPG复配, 发泡型催化剂
Delayed, longer cream time	延迟的BDMAE, 提供较长的乳白时间
23% BDMAE in DPG	23%的BDMAE和DPG复配
Weak amine catalyst	二甲基乙醇胺, 弱胺催化剂
Non emissive. Good gel and flow	非排放型, 良好的凝胶和流动性
Low odor for surface cure and adhesion	低气味催化剂, 有利于表面固化和与基材的粘合
Non emissive, lower activity than LA200	非排放型, 泡沫气味降低, 活性低于LA200
Non emissive, lower activity than LA200	非排放型, 泡沫气味降低, 活性低于LA200
Non emissive, reactive gel catalyst	非排放型, 反应型凝胶催化剂, 泡沫气味降低
金属催化剂 Metal Catalyst	
Stannous octoate. Standard metal catalyst	辛酸亚锡, 标准的金属催化剂
有机硅表面活性剂 Silicone Surfactant	
For D= 8 - 45	适用于8 - 45密度范围
For D = 18 - 45	适用于18 - 45密度范围
For D = 8 - 45	适用于 8 - 45密度范围
For D = 5 - 15	适用于 5 - 15密度范围
FR & Conventional foam. Medium efficiency	适用于阻燃型和常规泡棉, 中等活性
FR & Conventional foam. High efficiency	适用于阻燃型和常规泡棉, 高活性
Med to high density, wide processing latitude	中到高密度, 极高的宽容度
Med to high density	中到高密度
Low to medium density	低到高密度
Low to medium density	低到高密度
阻燃剂 Flame Retardant	
Triethyl phosphate	磷酸三乙酯
Low VOC version of TCPP	低气味的TCPP
特殊添加剂 Special Additive	
Improve elongation.Solve foam split at side	提高伸长率,解决了泡沫侧裂问题
Softening agent	泡沫柔软剂
Additive for flame lamination	火焰复合剂
Hardener for slab foam	增硬剂
Prevent degradation and prevent yellowing	防止泡沫降解, 减少泡沫中心发黄
Additive for flame lamination	火焰复合剂
Emulsifier for melamine filled foam	三聚氰胺泡沫乳化剂

软质模塑添加剂 Additives for flexible molded applications



牌号 Brand	发泡 Blow	平衡性 Balance	凝胶 Gel	延迟作用 Delayed action	低气味 Low odor	提高表皮熟化 Improved surface cure	缩短脱模时间 Reduce demoulding time
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胺催化剂 Amine Catalyst

Trademark: Hegrecat

TA101			X				
TA101X			X				
TA110			X	X			
TA111		X		X			
TA112		X		X			
BA101	X			X			
BA103			X	X			
BA104	X			X			
BA107	X			X			
DMEA		X	X	X	X	X	X
LA105		X			X	X	
LA107					X	X	
LA200			X	X	X	X	
LA170		X	X	X	X	X	X
TA2070	X					X	X
TA3070	X					X	X
TA3060	X					X	X

有机硅表面活性剂 Silicone Surfactant

TDI T/M MDI

Trademark: HiSilicone

M1085			X	X		
M1081			X	X		

牌号 Brand	提高硬度 Improved hardness	提高流动性 Improved flowability	Properties	产品性能
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胺催化剂 Amine Catalyst

Trademark: Hegrecat

TA101			33% TEDA in DPG	33% 三乙烯二胺和67%二丙二醇
TA101X			33% TEDA. Reduced VOC	使用反应型溶剂的液态三乙烯二胺
TA110	X		Delay cream and improve flow	降低乳白时间和改善流动性
TA111	X		Delay cream and improve flow	降低乳白时间和改善流动性
TA112	X		Delay cream and improve flow	降低乳白时间和改善流动性
BA101		X	70% BDMAEE in DPG	70% BDMAEE和DPG复配
BA103	X		Acid blocked gel catalyst	有机酸封端凝胶催化剂
BA104	X		Acid blocked blow catalyst	有机酸封端发泡催化剂
BA107	X		Delayed blow catalyst	延迟的发泡型催化剂
DMEA	X	X	Weak amine catalyst	弱胺催化剂
LA105			Reactive balanced catalyst	反应型,平衡催化剂
LA107			Balanced, excellent surface curing	平衡型催化剂,出色的表面固化性能
LA200		X	Non emissive. Good gel and flow	非排放型,良好的凝胶性能和流动性
LA170	X	X	DMAEE. Non emissive	二甲氨基乙氧基乙醇,非排放型催化剂
TA2070			Low odor for surface cure & adhesion	低气味催化剂,有利于表面固化和粘结性
TA3070			Improve surface cure	改善表面固化
TA3060			Improve surface cure	改善表面固化

有机硅表面活性剂 Silicone Surfactant

Trademark: HiSilicone

M1085		Good balance of cell regulating	泡孔结构控制比较好
M1081		Good balance of cell regulating	泡孔结构控制比较好

鞋底原液用添加剂 Additives for shoe sole applications



牌号 Brand	发泡 Blow	平衡性 Balance	凝胶 Gel	延迟作用 Delayed action	提高泡沫流动性 Improved flowability	低气味 Low odor	缩短脱模时间 Reduce demoulding time
胺催化剂 Amine Catalyst							
TA102				x			
TA103			x				
TA104			x				
TA107		x		x			
TA108	x			x			
TA110			x				
LA141	x						x
LA107	x					x	
TA2070	x				x	x	
TA2071	x				x	x	
TA1071			x			x	
TA1072	x				x		
TA1073	x						x
有机硅表面活性剂 Silicone Surfactant							
R1001							

牌号 Brand	Properties	产品性能
胺催化剂 Amine Catalyst		
TA102	33% TEDA in EG	33% 三乙烯二胺和67%乙二醇
TA103	33% TEDA in 1,4 BDO	33% 三乙烯二胺和67% 1,4丁二醇
TA104	25% TEDA in 1,4 BDO	25% 三乙烯二胺和75% 1,4丁二醇
TA107	Reduced demold time for MEG system	乙二醇系统中减少脱模时间
TA108	Reduced demold time for BDO system	1,4丁二醇系统中减少脱模时间
TA110	Delay cream and improve flowability	改善乳白时间和流动性
LA141	Providing good flow and cure	提供良好的流动性和固化
LA107	Balanced, excellent surface curing	平衡型催化剂,出色的表面固化性能
TA2070	Low odor for surface cure & adhesion	低气味催化剂,有利于表面固化和粘结性
TA2071	Low odor for surface cure & adhesion	低气味催化剂,有利于表面固化和粘结性
TA1071	Reduced demold time	缩短脱模时间
TA1072	Improved flow for low density shoe sole	在低密度鞋材系统中,改善流动性
TA1073	For surface skin improvement and cure	改善表皮和固化性能
有机硅表面活性剂 Silicone Surfactant		
R1001	Conventional product for med to high density	常规产品,适用于中到高密度