

2023

Polyurethane Product Catalog



Quality Assurance

The company believes that success in the business depends on the quality of product and services offered to contented customer. It is providing a product with the high quality to offer domestic and international customers is our top priorities, so we produce such a high quality that is reliable and strong in conformation to the standard set of quality management system. Since 1994, we continually develop and improve the quality of products and services in order to meet our customer's needs and expectations.



Products Quality

Customer's demand is quality assurance and quick delivery service. To achieve this, the Company has a standard criterion for procurement process in selecting the source and packaging of raw materials, qualification of the supplier, control of vendor and raw material specification, all of which must be 100% pass through the standard specification requirement. In addition, the Company has its own research and development team who has wide knowledge in product development and research capability of exploring and determining the standard quality of product, creating innovative ideas and using up to date technology.

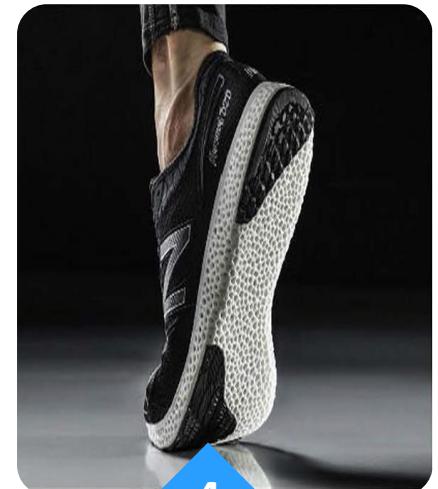
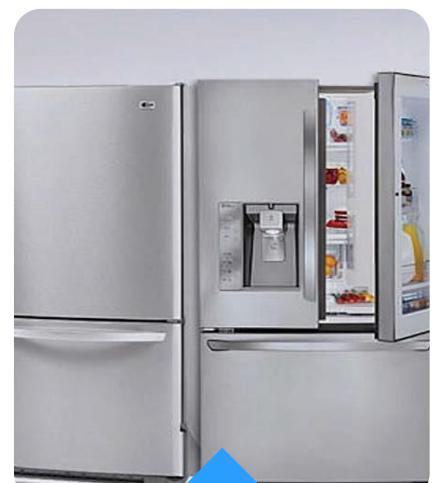
Technical service

Our customer service team also attributes to develop our service giving attention detail to every customer's needs and expectations with quick response to every requirement. More over, the invention of the latest information technology such as the communication system has also greatly contributed to progress of the production process, making communication with our customer a reality in just a short Period of time. With our strong determination to achieve our goals in the business world, we are confident to offer not only a product with excellent quality but also a fast and friendly service to our customers.



Products Classification:

- 1- Rigid System**
- 2- Semi-Rigid System**
- 3- Flexible System**
- 4- Shoe and sole System**
- 5- Polyurethane Colors**
- 6- Mold Release Agents**
- 7- Adhesive & Sealant System**



1- Rigid System

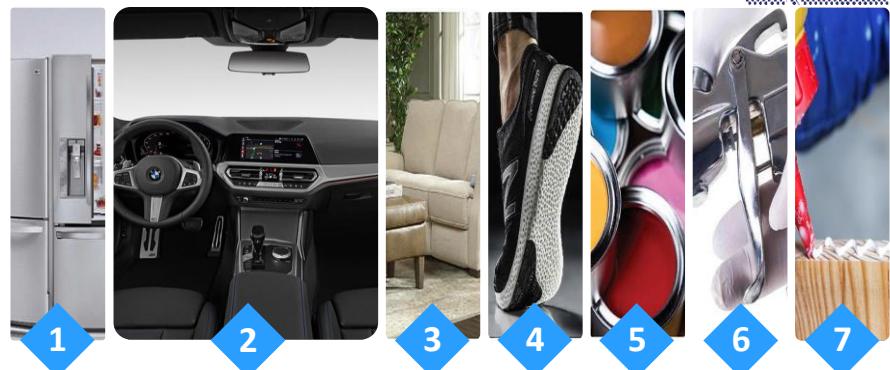
- **Sandwich Panel (Continuous and Discontinuous production method)**
- **Production of Refrigerator and Freezer**
- **Decoration Semi-Wood and High Density Foam**
- **Tank and Pipe Insulation**
- **Spray Insulation**



PU Rigid System	Relate Gas-%	Cream Time (Sec)	Gel Time (Sec)	Rise Time (Sec)	Free Rise Density (Kg/m³)	Application
Polyol 4405-B2 Isocyanate 300	-	1-2	5	7	35-40	Rigid Spray System
Polyol 4411 Isocyanate 300	CP 11±1%	14±1	63±2	75	23~24	Refrigerator System Compatible with Gas Cyclopentane
Polyol 4415 Isocyanate 300	R11 18±1%	14±1	83±2	100	23~24	Refrigerator System Compatible with Gas R11
Polyol 4415 Isocyanate 300	141B 18±1%	14±1	83±2	100	23~24	Refrigerator System Compatible with Gas 141B
Polyol 4420 Isocyanate 300	141B 23~24% Related to thickness	11±2	56±2	95	34~38	Continuous Sandwich Panel 4 – component system
Polyol 4420-B2 Isocyanate 300	141B 23~24% Related to thickness	11±2	56±2	95	34~38	B2-Class Continuous Sandwich Panel 4 – component system
Polyol 4425 Isocyanate 300	141B 18±1%	27±2	125±5	165	31~33	Discontinuous Sandwich Panel system
Polyol 4425-B2 Isocyanate 300	141B 18±1%	27±2	125±5	165	31~33	B2-Class Discontinuous Sandwich Panel system
Polyol 4435 Isocyanate 300	141B 18±1%	35±1	140±5	190	32~35	Rigid Injection System to Pipes Insulation
Polyol 4445 Isocyanate 300	-	30±1	75±5	120	43~48	Some Special Insulation Application
Polyol 4455 Isocyanate 300	-	30±1	75±5	120	53~58	Some Special Insulation Application
Polyol 4465 Isocyanate 300	-	30±1	75±5	120	63~68	Some Special Insulation Application
Polyol 4490 Isocyanate 300	-	25±2	190±5	200	250~300	Wood Foam System
Polyol 4490/XXX Isocyanate 300	-	25±2	190±5	200	100~700 Related to order	Decoration System

2- Semi-Rigid System

- **Automotive Dampening Part**
- **Automotive Dashboard**
- **Automotive Trim Part**
- **Integral Skin Foam**



PU Rigid System	Relate Gas-%	Cream Time (Sec)	Gel Time (Sec)	Rise Time (Sec)	Free Rise Density (Kg/m)	Application
Polyol 9940 Isocyanate	-	20	85	120	62-65	Dashboard Foam
Polyol 9944 Isocyanate	-	7±1	20±2	30	35~50 Related to Order	Bumper Foam
Polyol 4828 Isocyanate	-	20±1	80±2	100	65~70	Automotive Armrest
Polyol 4838 Isocyanate	-	15±1	45±2	65	60	Automotive Trim Parts
Polyol 503 Isocyanate	141B 8~10%	15±2	30±2	45	210~230	Integral Skin foam for Steering Wheel

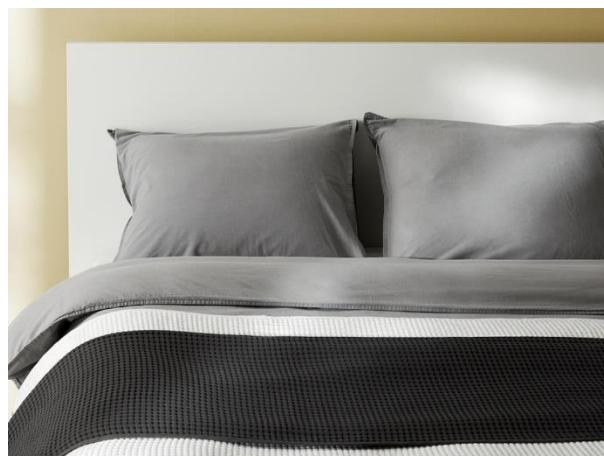


3- Flexible System

- Automotive Seat
- Bedding and Furniture
- Sound Insulation



PU Rigid System	Cream Time (Sec)	Gel Time (Sec)	Rise Time (Sec)	Free Rise Density (Kg/m³)	Application
Polyol 3673 Isocyanate 401	13±1	83±2	140-150	50~52	Flexible Foam for Furniture
Polyol 3675 Isocyanate 401	13±1	78±2	95-100	47~48	Flexible Foam for Furniture
Polyol 3677 Isocyanate 401	13±1	81±2	110-120	48~50	Flexible Foam for Automotive seating
Polyol 3677-B2 Isocyanate 401	13±1	83±2	115-120	50~51	Flexible Foam for Automotive seating with Fire Retardant
Polyol 3626 Isocyanate 401	10±1	53±2	70-75	49~50	Flexible Foam for Motorcycle Saddle
Polyol 5533 Isocyanate 401	27±2	82±2	105-110	280~290	Air Filters Foam with Low Density and various Colors
Polyol 5535 Isocyanate 401	32±2	78±2	100-105	420~430	Air Filters Foam with High Density and various Colors
Polyol 5537 Isocyanate 401	27±2	78±2	95-100	300~310	Air Filters Foam with Medium Density and various Colors



4- Shoe and Sole System

- Men Shoe and Sole
- Men and Women Slipper
- Safety Shoe
- Sport Shoe
- Mountain Climbing Shoe

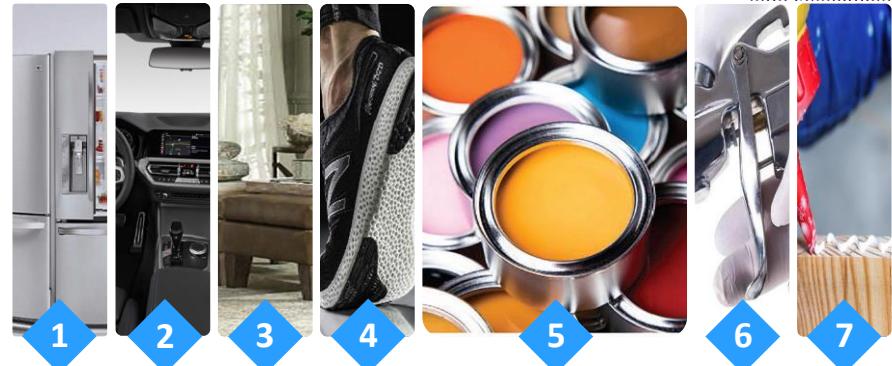


PU Rigid System	Cream Time (Sec)	Free Rise Density (Kg/m³)	Mold Density (Kg/m³)	Hardness (Shore A)	Demolding Time (Sec)	Poly/Iso Ratio (Poly 100)	Application
Polyol 421 Isocyanate 100 Additive 444	8±1	250±10	430±10	50±5	210-240	86±3	Men Shoes
Polyol 521 Isocyanate 200 Additive 555	8±1	230±10	390±10	65±5	180-220	105±4	Slippers and Short Heel
Polyol 321 Isocyanate 100 Additive 666	8±1	210±10	310±10	85±5	150-190	115±5	High Heel
Polyol 490 Isocyanate 490 Additive 490	8±1	250±10	440±10	50±5	210-240	90±4	Athletic Shoes
Polyol 336 Isocyanate 401	9±1	120±10	-	-	-	27±3	Insole



5- Polyurethane Colors

- Colorama Colors
- Spray Colors
- Deep & Brush Colors
- PVC & ABS Colors



Type of Color	Ral	Application	Specification
Colorama	All Colors	PU	Low Consumption & Level Shown
Spray	All Colors	PU, PVC, ABS & Thermo	Low Consumption, High Coating & Level Shown
Deep	All Colors	PU, PVC, ABS & Thermo	High Consumption, High Coating & Level Shown (Women)
Brush	All Colors	PU, PVC, ABS & Thermo	Low Consumption, High Coating & Level Shown



6- Mold Release Agents

- Solvent- based mold release agents
- Water-base mold release agents
- Shoe and Sole Silicones



Release Agent	Solubility	Dilution Ratio	Type of App. Material	Application
1185	Chlorinated Solvent	1/20	Polyester PU	Sole
1186	Chlorinated Solvent	1/20	Polyester PU	Slippers
1194	Chlorinated Solvent	-	Polyester PU	Soles, Shoes & Slippers
1700	Chlorinated Solvent	1/25	Polyester PU	Soles, Shoes & Slippers
1133	Chlorinated Solvent	-	Polyester PU	Slippers
1060	Water	1/100	Polyester PU	Shoes & Slippers
377119	Hexane & Gasoline	1/2	PU Foams	Insole & All Kind of PU Foams
S32	Water	1/1	PU Foams	All Kind of Foams

7- Adhesive and Sealant System

- Flooring Adhesive
- Construction and Industry Sealant





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