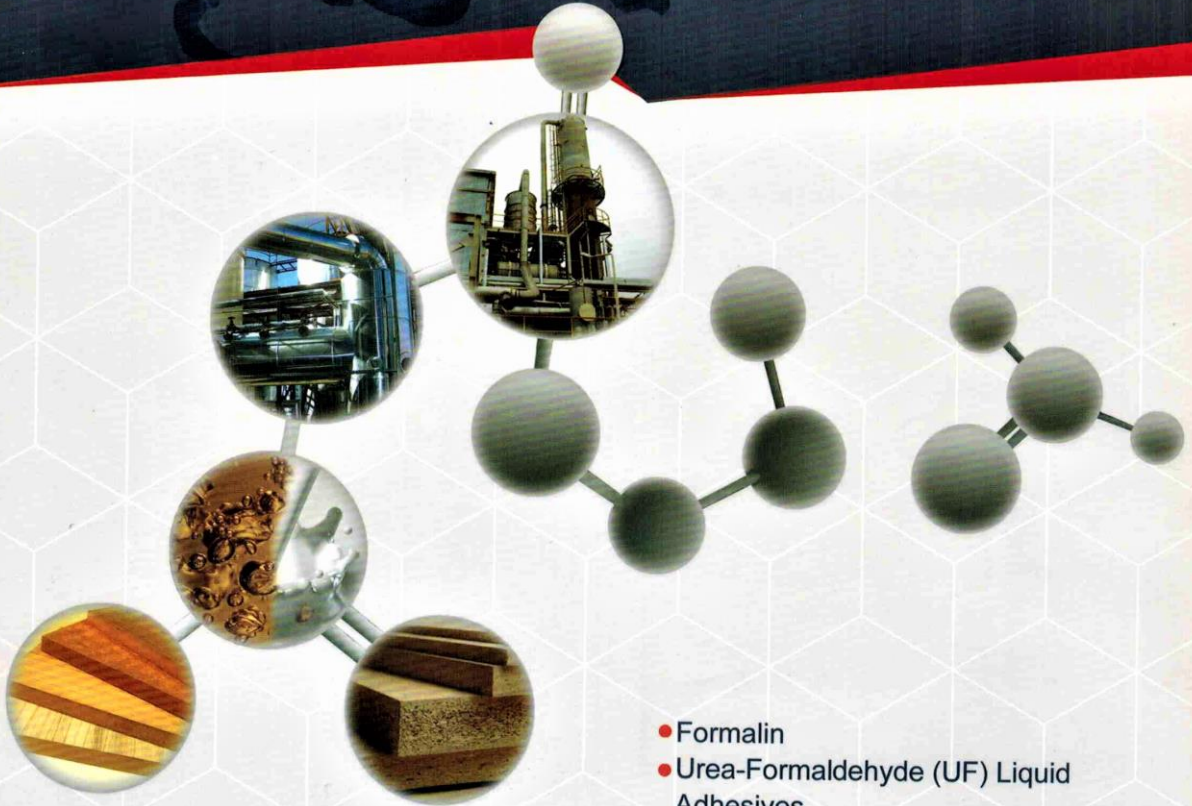




SHIRAZ CHEMICAL INDUSTRIES Co. (P.J.S)



- Formalin
- Urea-Formaldehyde (UF) Liquid Adhesives
- Melamine-Urea-Formaldehyde (MUF) Liquid Adhesives
- Urea-Formaldehyde (UF) Coating Resins
- Melamine-Formaldehyde (MF) Coating Resins
- Urea-Formaldehyde and Melamine-Formaldehyde Moulding Powders

www.shirazchemicals.com

The Best Products. The Best Services

بهترین محصولات. بهترین خدمات

A Few Words About Us

Shiraz Chemical Industries is one of the Iran's leading producers of Amino Resins and Formalin. With an unrelenting pursuit of excellence, the company serves its domestic and international clients with products that offer unbeatable performance and quality.

Founded in 2006, *Shiraz Chemical Industries* is a leading producer of Urea-Formaldehyde (UF) and Melamine-Formaldehyde (MF) product varieties. Through incorporating the most advanced technologies, the company's products offer unbeatable performance and quality for use in a wide range of applications such as Wood Glue, Laminated Particle Board, MDF, Agriculture, and Disinfectants.

In addition to offering unmatched products, assisting clients in launching a smooth and hassle-free production is an absolute priority. To this effect, *Shiraz Chemical Industries* has put together a dispatch team of experienced professionals that can work along with clients' teams to ramp up production lines quickly and efficiently.

With an established high-capacity manufacturing facility, *Shiraz Chemical Industries* is capable of satisfying the production needs of our high-volume customers. Moreover, the firm is well positioned to support clients internationally.



**SHIRAZ CHEMICAL
INDUSTRIES Co. (P.J.S)**



.....It's Your Perfect Choice

Serving both domestic and international markets, Shiraz Chemical Industries is a leading producer of Formalin as well as Melamine-Formaldehyde (MF) and Urea-Formaldehyde (UF) product varieties. These products can be used in an extensive range of applications including the following:

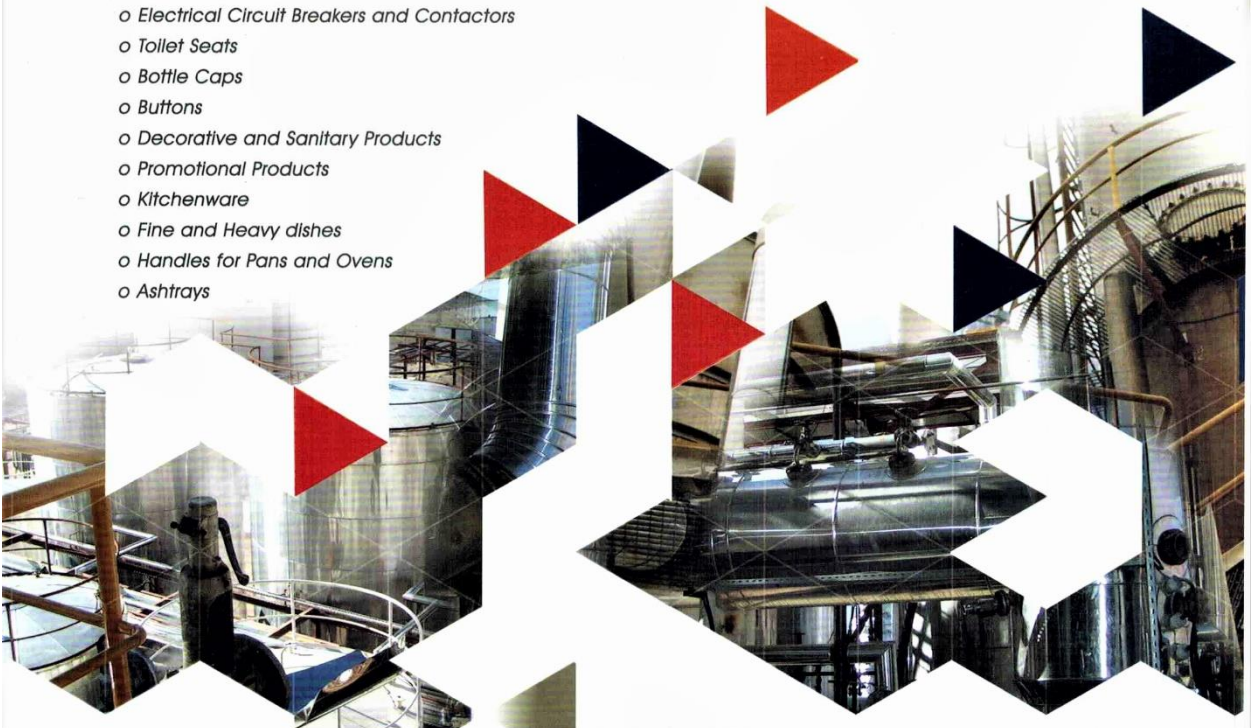
- *MDF*
- *Wood Glue*
- *Laminated Particle Board*
- *Disinfectants*

Choose from our product categories listed on the right.

In addition to MF and UF product varieties, *Shiraz Chemical Ind.* also offers the following products through collaboration with its sister companies: *Saravid Industrial Co.* and *Sarvnaz Co.*

- *Food grade Melamine Formaldehyde Moulding Compound*
- *Industrial Grade Urea, Urea-Melamine, and Melamine Moulding Compounds with applications in:*

- *Electric Fittings*
- *Electrical Circuit Breakers and Contactors*
- *Toilet Seats*
- *Bottle Caps*
- *Buttons*
- *Decorative and Sanitary Products*
- *Promotional Products*
- *Kitchenware*
- *Fine and Heavy dishes*
- *Handles for Pans and Ovens*
- *Ashtrays*



VenaForm 101

Formaldehyde Solution in Water

General Description

VenaForm 101 is typically a 37 - 44 % solution of formaldehyde in water. Higher concentrations and/or low methanol content of less than 1% are available upon request.

Applications

- Production of UF, MF and phenolic resin
- Production of BDO, MDI and polyacetal
- Production of antiseptics, detergents, disinfectants
- Production of UFC 65 and UFC 85

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	VFA 101	37 - 44
Methanol, wt. %	VFA 103	2 - 6
Acidity (as formic), ppm	VFA 102	300 Max
Appearance		Transparent

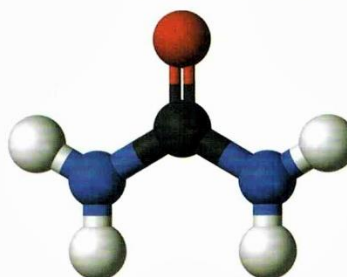
[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Min storage temperature (stabilized), °C	35
Min storage temperature (unstabilized), °C	45 Max
Shelf life, days	60

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck



VenaUfor 851

Urea-Formaldehyde Concentrate (UFC 85)

General Description

VenaUfor 851 is a urea-formaldehyde concentrate known as UFC 85.

Applications

- As coating agent in production of urea
- Production of aminoplastics such as UF adhesive and resin

Technical Specifications

PROPERTY	SPECIFICATION
Formaldehyde, wt. %	60 ± 0.5
Urea, wt. %	25 ± 0.5
Balance, wt. %	15 ± 0.5
Methanol, wt. %	0.1 Max.
Sp.G. @ 20°C	1.320 -1.325
pH	7.5 - 8.5
Viscosity†	100 - 200
Water solubility, %	Infinite

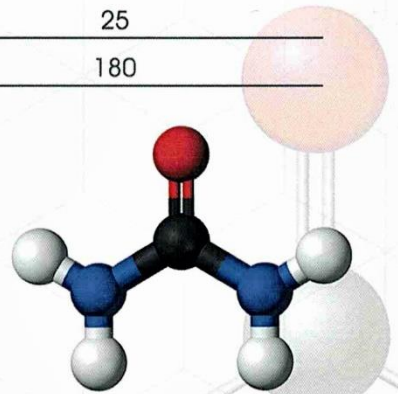
† (100 cc With Ford Cup 4mm@ 20°C).

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Shelf life, days	180

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck





BestBond 101

Urea-Formaldehyde Adhesive

General Description

BestBond 101 is a Urea-Formaldehyde adhesive resin that is specially formulated for consumption in small industry presses, offering a strong and reliable bond. It offers high solubility in water and an exceptionally long shelf life. Unlike competing products, it is easily washable with tap water.

Applications

- MDF production only

Technical Specifications

PROPERTY	METHOD†	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.6 Max
Solid content, %	BBA 204	62 - 65
Sp.G.	BBA 206	1.285 - 1.300
pH	BBA 205	7.5 - 8.0
Viscosity	BBA 207	50 - 90
Water solubility, %	BBA 209	300 Min.
Gel time, sec.	BBA 201	50 - 70

† Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	35 Max
Shelf life, days	30

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck

BestBond 102

Urea-Formaldehyde Adhesive



General Description

BestBond 102 is a Urea-Formaldehyde adhesive resin that is innovatively formulated to lower consumption while offering a strong bond. It offers high solubility in water and an exceptionally long shelf life. Unlike competing products, it is easily washable with tap water.

Applications

- MDF and particleboard production with continuous hot press and prepress

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.6 Max
Solid content, %	BBA 204	62 - 65
Sp.G.	BBA 206	1.285 - 1.300
pH	BBA 205	7.5 - 8.5
Viscosity	BBA 207	50 - 90
Water solubility, %	BBA 209	300 Min.
Gel time, sec.	BBA 201	50 - 70

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	33 Max
Shelf life, days	30

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck



BestBond 103

Urea-Formaldehyde Adhesive

General Description

BestBond 103 is a Urea-Formaldehyde adhesive resin that is innovatively formulated to lower consumption while offering a strong bond. It offers an exceptionally long shelf life..

Applications

- MDF and particleboard production with multilayer hot press (high tack adhesive)

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.6 Max
Solid content, %	BBA 204	62 - 65
Sp.G.	BBA 206	1.285 - 1.300
pH	BBA 205	7.5 - 8.5
Viscosity	BBA 207	80 - 110
Water solubility, %	BBA 209	150 Min.
Gel time, sec.	BBA 201	50 - 70

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

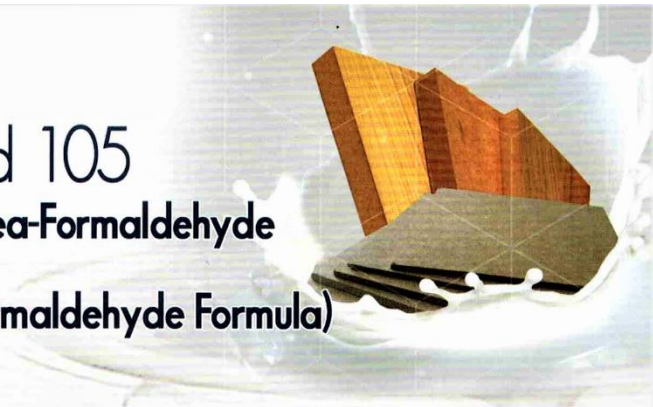
PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	33 Max
Shelf life, days	25

Transportation

- Bulk deliveries in steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck

BestBond 105

Melamine-Urea-Formaldehyde Adhesive (Low Free Formaldehyde Formula)



General Description

BestBond 105 is a Melamine-Urea-Formaldehyde adhesive which its formula is designed to reduce the water absorption feature and formaldehyde emission in the final panel products. In tandem with BestBond 105, VenaHard 105 (an acidic catalyst) may be utilized to adjust processing parameters and moisture-resistance in MDF characteristics.

Applications

- Moisture-resistant particleboard and MDF production with continuous hot press and prepress

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.3 Max
Solid content, %	BBA 204	62 - 65
Sp.G.	BBA 206	1.280 - 1.290
pH	BBA 205	7.5 - 8.5
Viscosity	BBA 207	50 - 70
Water solubility, %	BBA 209	150 Min.
Gel time, sec.	BBA 201	75 - 85

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	33 Max
Shelf life, days	25

Transportation

- Bulk deliveries in steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck



BestBond 106

Urea-Formaldehyde Adhesive



General Description

BestBond 106 is a Urea-Formaldehyde adhesive resin that is innovatively formulated to lower consumption while offering a strong bond. It offers high solubility in water and an exceptionally long shelf life. Unlike competing products, it is easily washable with tap water.

Applications

- Particleboard production with hot roll press (4 - 8mm thickness product)

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.6 Max
Solid content, %	BBA 204	62 - 65
Sp.G.	BBA 206	1.285 - 1.300
pH	BBA 205	7.5 - 8.5
Viscosity	BBA 207	45 - 70
Water solubility, %	BBA 209	300 Min.
Gel time, sec.	BBA 201	50 - 70

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	33 Max
Shelf life, days	30

Transportation

- Bulk deliveries in steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck

VenaHard 105L and 105S

Acidic Catalyst



General Description

VenaHard 105 is an acidic catalyst in Liquid or Solid form.

Applications

- Hardener for BestBond 105.

Technical Specifications

PROPERTY 105L	METHOD [†]	SPECIFICATION
Sp.G.	VHA 502	1.215 - 1.225
pH	VHA 503	1.0 - 1.4
Appearance	-	Transparent
Color	-	Colorless

PROPERTY 105S	METHOD [†]	SPECIFICATION
Physical form	-	Granule
Bulk density, gr/cm ³	VHA 504	840-850
Water solubility, %	-	Infinite

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature	Ambient
Recommended storage condition	Dark and dry
Shelf life, days	360

Transportation

- 250 kg HDPE barrels
- 25 kg bag



BestCoat 101

Urea-Formaldehyde Resin

General Description

BestCoat 101 is a Urea-Formaldehyde resin that is innovatively formulated to offer a strong bond at lower consumption levels than competing products. This UF resin provides a high quality.

Applications

- Intermediate coat impregnation resin for MDF and particleboard lamination

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.5 Max
Solid content, %	BCA 301	44 - 46
Sp.G.	BCA 303	1.195 - 1.200
pH	BCA 302	7.5 - 7.8
Viscosity	BCA 304	13 - 14
Water solubility, %		Infinite

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	35 Max
Shelf life, days	7

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck



BestCoat 103

Melamine-Formaldehyde Resin

General Description

BestCoat 103 is a Melamine-Formaldehyde resin that is innovatively formulated to offer a strong and durable bond at lower consumption levels than competing products. This MF resin provides a high quality, scratch resistant coat.

Applications

- Top coat resin impregnation for MDF and particleboard lamination

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.3 Max
Solid content, %	BCA 404	53 - 57
Sp.G.	BCA 402	1.245 - 1.255
pH	BCA 403	9.5 - 9.8
Viscosity	BCA 401	20 - 25
Water solubility, %	BCA 407	210 - 250

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	20 Min
Shelf life, days	4

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck

BestCoat 105

Melamine-Urea- Formaldehyde Resin

General Description

BestCoat 105 is a Melamine-Urea-Formaldehyde resin that offers excellent performance and quality at a price lower than MF resin alternatives. The bond and surface strength attained is quite comparable to that of MF resins. In addition, BestCoat 105 offers a longer shelf-life than that of currently available MF varieties such as BestCoat 103.

Applications

- Top coat impregnation resin for MDF and particleboard lamination

Technical Specifications

PROPERTY	METHOD [†]	SPECIFICATION
Formaldehyde, wt. %	BBA 208	0.3 Max
Solid content, %	BCA 404	52 - 55
Sp.G.	BCA 402	1.235 - 1.245
pH	BCA 403	9.2 - 9.8
Viscosity	BCA 401	15 - 20
Water solubility, %	BCA 407	250 - 400

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Critical temperature, °C	35 Max
Shelf life, days	14

Transportation

- Bulk deliveries in stainless steel tank trucks
- Containerized 250 kg HDPE barrels
- Customer pickup using own tank and truck

UreaVid 152P

Urea-Formaldehyde Moulding Powder



General Description

UreaVid-152P, offered in white, ivory or grey colors, is urea-formaldehyde moulding powder that is produced under a unique and proprietary know-how. The Production method offers an excellent product with high mechanical strength and less formaldehyde emission levels than competing products. UreaVid-152P is supplied in granule form and in a wide range of flow-property from injection grade.

Applications

- Production of electrical parts, sanitary items, etc.

Technical Specifications

PROPERTY - Moulded Sample	METHOD [†]	SPECIFICATION
Electrical Insulation Resistance, Ohm	SVD 505	10 min
Impact Strength, kj/m ²	SVD 508	7.0 min
Notched Impact Strength, kj/m ²	SVD 509	1.5 min
Flexural Strength, MPa	SVD 507	70 min
Cold Water Absorption, mg	SVD 502	200 max
Shrinkage, %	SVD 502	1.2 max

PROPERTY - Powder	METHOD [†]	SPECIFICATION
Physical form	-	Granule
Bulk density, gr/cm ³	SVD 503	650-700
Fine powder content, %	SVD 503	< 10

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Recommended storage condition	Dark and dry
Shelf life, days	120

Transportation

- 25 kg double layer bag

UreaVid 162P

Urea-Formaldehyde Moulding Powder



General Description

UreaVid-162P, offered in blue white, is urea-formaldehyde moulding powder that is produced under a unique and proprietary know-how. The Production method offers an excellent product with high mechanical strength and less formaldehyde emission levels than competing products. UreaVid-162P is supplied in granule form and in a wide range of flow-property from injection grade.

Applications

- Production of electrical parts, sanitary items, etc.

Technical Specifications

PROPERTY - Moulded Sample	METHOD [†]	SPECIFICATION
Electrical Insulation Resistance, Ohm	SVD 505	10 min
Impact Strength, kj/m ²	SVD 508	7.0 min
Notched Impact Strength, kj/m ²	SVD 509	1.5 min
Flexural Strength, MPa	SVD 507	70 min
Cold Water Absorption, mg	SVD 502	200 max
Shrinkage, %	SVD 502	1.2 max

PROPERTY - Powder	METHOD [†]	SPECIFICATION
Physical form	-	Granule
Bulk density, gr/cm ³	SVD 503	650-700
Fine powder content, %	SVD 503	<10

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

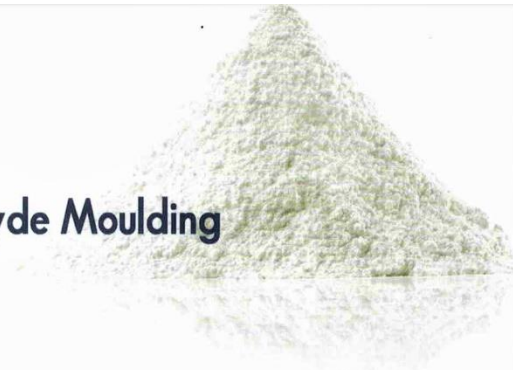
PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Recommended storage condition	Dark and dry
Shelf life, days	120

Transportation

- 25 kg double layer bag

SaraMel 106P

Melamine-Formaldehyde Moulding Powder



General Description

SaraMel-106P, offered in blue white, is melamine-formaldehyde moulding powder that is produced under a unique and proprietary know-how. The Production method offers an excellent product with high mechanical strength and less formaldehyde emission levels than competing products. SaraMel-106P is supplied in granule form and in a wide range of flow-property from injection grade.

Applications

- Production of tableware, electrical parts, sanitary items, etc

Technical Specifications

PROPERTY - Moulded Sample	METHOD [†]	SPECIFICATION
Impact Strength, kj/m ²	SVD 508	6.5 min
Notched Impact Strength, kj/m ²	SVD 509	1.5 min
Flexural Strength, MPa	SVD 507	80 min
Hot Water Absorption, mg	SVD 503	130 max
Cold Water Absorption, mg	SVD 502	100 max
Shrinkage, %	SVD 502	0.9 max

PROPERTY - Powder	METHOD [†]	SPECIFICATION
Physical form	-	Granule
Bulk density, gr/cm ³	SVD 503	650-700
Fine powder content, %	SVD 503	<25

[†] Shiraz Chemical Industries' own laboratory methods. Details are available upon request.

Storage

PROPERTY	SPECIFICATION
Recommended storage temperature, °C	25
Recommended storage condition	Dark and dry
Shelf life, days	120

Transportation

- 25 kg double layer bag

.....Custom Requirements

Are you seeking a custom solution? Please contact us to further discuss. For a minimum order volume, we will work with you to find a solution tailored to your needs.

Disclaimer of Liability

The information provided herein is believed by *Shiraz Chemical Industries* to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by *Shiraz Chemical Industries* are subject to its terms and conditions of sale.





SHIRAZ CHEMICAL INDUSTRIES Co. (P.J.S)

شرکت صنایع شیمیایی شیراز

(سهامی خاص)

- فرمالین
- چسب های اوره فرمالدئید مایع
- چسب های ملامین اوره فرمالدئید مایع
- رزین های آغشته سازی اوره فرمالدئید
- رزین های آغشته سازی ملامین فرمالدئید
- پودرهای قالبگیری اوره و ملامین فرمالدئید

negar graphic
071-36260263

دفتر مرکزی: ایران، شیراز، بلوار زند، ساختمان زند، شماره ۴۹۲، واحد ۳۱

کدپستی: ۷۱۳۴۷-۶۳۸۳۷

تلفن: ۰۲-۳۶۲۶۰۶۰۲ (۰۷۱) - خط ۵

فکس: ۰۷۱-۳۶۲۷۷۰۷۱

کارخانه: ایران، شیراز، کیلومتر ۱۴ شیراز جهرم، منطقه دهنو

تلفن: ۰۲۲-۳۷۷۶۳۱۱۹ (۰۷۱)

Head Office: Unit 31, Bldg 492, Zand Ave, Shiraz, Iran

Post Code: 7134763837

Tel: (+98 71) 36260602 - 5 Lines

Fax: (+98 71) 36277071

Factory: 14th Shiraz-Jahrom Road, Apposite the Dehno Zone, Shiraz, Iran

Tel: (+98 71) 37763119-22

Website: www.shirazchemicals.com

Email: cs@shirazchemicals.com