



## Unsaturated polyester resin Orthophthalic Polyester Resin

### Product Description:

Kimia O-721 is an un-promoted orthophthalic based Unsaturated Polyester Resin with low color, medium viscosity and very good mechanical properties for ambient temperature cure with MEK peroxide.

### Characteristics and Advantages:

- Low color
- Medium viscosity
- Very good mechanical properties
- Excellent adhesion to glass fibers
- Outstanding filler binding power

### Uses:

- Casting decorative parts and accessories
- Car Putty
- Polyester Mastic Adhesive
- Hand lay-up
- Urban furniture fabrication
- Aqua park equipment fabrication
- Playing ground equipment fabrication
- Solid surface
- Artificial stone

### Technical Properties:

#### Physical data in a liquid state at 25 C

Properties	Unit	Value	Test method
Appearance	NA	Clear	NA
Color	Gardner	Max 1	ASTM D1544
Viscosity (at 25°C)	mPa.s (cP)	380 - 480	ISO 2555
Density (at 23°C)	g/cm <sup>3</sup>	1.1293	ASTM D1475
Acid number	mg KOH/g	Max 26	ASTM D1639
Solid content	%	62 ± 2	ASTM D1259
Gel time*	min	6-8	ASTM D2471
Curing time	min	16-25	ASTM D2471
Peak exothermic temperature	°C	Max 190	ASTM D2471
Water absorption	wt%	Max 0.3	ISO 62
Flash point (open cup)	°C	22	ASTM D92

This information is continuously measured and considered a part of the product's technical specifications, and their presence is only for a better description of the product.

Office Address : Unit 5 , Second floor , Shohada building , On the corner of Karkhaneh ghand cross road, Karaj city , Alborz province , Iran  
Factory Address : SH Block , Talashgaran Alley , koushesh Avenue , Kowsar industrial Zone , Karaj city , Alborz province , Iran

Whatsapp Numbers (Iran) : +98 9398347647 - +98 9125452114  
Whatsapp Number (Turkey) : +90 5349711675

Social accounts :

Linkedin : [www.linkedin.com/in/kimiaresin](http://www.linkedin.com/in/kimiaresin)  
Facebook : [www.facebook.com/kimiaresin](http://www.facebook.com/kimiaresin)  
Twitter : [www.twitter.com/kimiaresin](http://www.twitter.com/kimiaresin)  
Telegram channel : [t.me/kimiaresin\\_co](https://t.me/kimiaresin_co)  
Instagram : [www.instagram.com/kimia\\_resin.co](http://www.instagram.com/kimia_resin.co)

[www.kimiaresin.com](http://www.kimiaresin.com)



### Typical non-reinforced casting properties

<b>Tensile strength</b>	<b>MPa</b>	<b>55+-5</b>	<b>ISO 527-2</b>
<b>Tensile elongation</b>	<b>%</b>	<b>4-5</b>	<b>ISO 527-2</b>
<b>Tensile modulus</b>	<b>MPa</b>	<b>2200</b>	<b>ISO 527-2</b>
<b>Flexural strength</b>	<b>MPa</b>	<b>110+-10</b>	<b>ISO 178</b>
<b>Flexural modulus</b>	<b>MPa</b>	<b>2384</b>	<b>ISO 178</b>
<b>Heat distortion temperature(HDT)</b>	<b>°C</b>	<b>Min 55</b>	<b>ASTM D648</b>
<b>Hardness (Barcol)</b>	<b>NA</b>	<b>40+-3</b>	<b>ASTM D2583</b>
<b>Linear shrinkage</b>	<b>%</b>	<b>Max 1.3</b>	<b>ASTM D2566</b>

The usual protective measures employed during the handling of Unsaturated Polyester Resins should be observed. Further product safety information can be obtained from our Material Safety Data Sheet which is available on request.

**Packaging:** 200 kg (net) in steel drums

**Storage:** Store in a cool place below 25 °C and away from moisture and direct sunlight. Under the above-mentioned storage conditions, the shelf life of the resin will be at least 6 months ex-works.

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