

# HIGH ENERGY SAVING WITH EXCELLENT INSULATION



**kim RIGID®**  
RIGID FOAM SYSTEMS



## Refrigerator Systems

## KIMcool® - KIMrigid®

### Refrigerator Systems

With the increased environmental awareness and importance of energy consumption around the world, energy saving products stand out in the white appliance industry, like many more industries. These products provide less energy consumption and long-term cost-efficiency without affecting the level of service and comfort. The demand for higher energy saving white appliances has increased considerably in the recent years.



Refrigerators, as electrical home appliances working continuously, have been proven to consume a higher rate of energy than other white goods. For this reason, the high energy-efficient refrigerators are critical for energy saving and cost-efficiency.

One of the most effective ways to reduce energy consumption in the refrigerator is to improve thermal insulation. When an insulation material with higher thermal resistance is used, the inside temperature reaches the set temperature in a shorter time and the amount of power drawn by the compressor from the circuit is reduced. Thus, a refrigerator insulated with a low thermal conductivity material maintains the set temperature more efficiently, leading to less energy consumption.

Rigid polyurethane foams maintain the inside temperature of the refrigerator, and thus reduce the consumed energy and provide high efficiency; thanks to their insulation capability due to their low thermal conductivity. Rigid foams also increase the storage volume by allowing great reduction in the wall thickness of the refrigeration equipment.

**Kimpur** has developed **KIMcool** and **KIMrigid** Refrigerator Systems that comply with environmental and energy standards, and help foods remain unspoiled for a long time and extend their shelf life, with their excellent insulation properties.



### AREAS OF USAGE

- Domestic refrigerators and freezers
- Commercial refrigeration equipment

## ADVANTAGES

- Energy saving with excellent thermal insulation
- Low demolding times with fast curing properties
- High production efficiency
- Excellent dimensional stability
- Excellent foam surface texture
- High mechanical properties



## KIMcool Refrigerator Systems

Three-component rigid polyurethane systems compatible with cP70 or cP95.

KIMcool	Type of Blowing Agent	Mixing Ratio (%)	Free Rise Density (kg/m³)	Cream Time (sec)	Gel Time (sec)	Rise Time (sec)
KIMcool RD 052	Cyclopentane	147	28	9	53	88
KIMcool RD 053	Cyclopentane	147	30	15	82	135
KIMcool RD 054	Cyclopentane	147	28	10	64	100
KIMcool RD 061	Cyclopentane	152	28	10	61	90

## KIMrigid Refrigerator Systems

Two-component rigid polyurethane systems containing various blowing agents.

KIMrigid RD	Type of Blowing Agent	Mixing Ratio (%)	Free Rise Density (kg/m³)	Cream Time (sec)	Gel Time (sec)	Rise Time (sec)
KIMrigid RD 057	Water Based	152	32	27	92	150
KIMrigid RD 091	365 / 227	150	28	11	80	122
KIMrigid RD 075	Pentane	120	28	23	150	220

You can contact our sales office for further detailed information about the products, TDS and MSDS documents.

# THE POLYURETHANE SYSTEM HOUSE OF TURKEY

SINCE  
**1983**

Turkey's Top  
**500**  
Industrial Enterprises

Turkey's Largest  
**500**  
FORTUNE  
Companies

**1000**  
2019 TOP 1000 EXPORTERS OF TURKEY

PRODUCTION CAPACITY  
**110.000**  
TON



**Kimpur Means Mutual Trust and Cooperation**



**Kimpur Means Quality**



**Kimpur Means Fast Approach to Market Challenges**



**Kimpur Means Strong Communication Networks with Its All Stakeholders**



**Kimpur is an Innovator and Solution Provider**



**Kimpur Means Experience**



**Kimpur is Sensible to The Environment**



**Kimpur is a Leading and Technology-Oriented Company**



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#### KİMTEKS POLİÜRETAN SANAYİ VE TİCARET A.Ş.

##### HEAD OFFICE :

Emniyet Evleri Mah. Eski Büyükdere Cad.  
Sapphire Plaza No:1/4 Kat: 19 D:01  
Kağıthane 34415 İstanbul TÜRKİYE

Phone: +90 212 809 15 50

Fax : +90 212 809 15 49

##### GEBZE FACTORY :

Gebze Plastikçiler Organize  
San. Bölgesi 7. Cadde No:43  
41400 Gebze Kocaeli TÜRKİYE

Phone: +90 262 751 44 71

Fax : +90 262 751 02 57

##### GAZİANTEP :

Sanayi Mah. Modern Sanayi Sitesi  
60363 Nolu Cad. Zemin Kat No: 82  
Şehitkamil Gaziantep TÜRKİYE

Phone: +90 342 325 57 97

Fax : +90 342 325 57 97