



کارینا پلیمر
KARINA
POLYMER



About Company

Karina Polymer develops and produces engineered polymer compounds and high-performance materials in a variety of characteristics, applications and properties. By leveraging our R&D platforms and passion for generating value, Karina Polymer offers a wide range of comprehensive industrial polymer products for industries including home appliances, automotive, electronics and engineering pipes to meet all of the customer's demands.



Factory Address: No.9, 1st Yas St., Dr.Hessabi Blvd., Shamsabad Ind.City.IRAN

Office Address No.6, Behnam St.,Kashani Ave., Tehran. IRA

Why Karina Polymer?

- **Optimal process of injection of parts.**
- **Technical and engineering advice from start to finish.**
- **Specialized recovery services.**
- **Delivery of products with quality certification.**
- **Production of exclusive formulations according to your production specifications.**



Products List

ABS Compound

KR-AM10 PLUS

KR-AM06

KR-Y3

KR-Y2

PP Compound

KR-B10

KR-PR070

KR-B10N

KR-PR5

KR-B50

KR-PR6

KR-B7

KR-W900

KR-B70

KR-W1800

KR-B80

KR-RF100

KR-L1

KR-RF300

KR-B4C

KR-RF500

PE Compound

KR-CRG2

KR-CRG3

KR-CRG4

KR-PR100

KR-BL3

KR-Y2

Compound ABS copolymer

Description

KR-Y2 is a General-Purpose ABS, tuned to ABS 0150 Grade functional properties, and is a rigid thermoplastic with good processing characteristics. It is a high flow injection molding grade with considerable impact strength and medium heat deflection.

Features

This grade is intended for a wide range of applications including:

- Home appliances,
- Cosmetic devices and holders
- Automotive parts,
- Electrical parts/fittings,
- Telecommunication and electronic devices.

Colors

This product is only available in coal black color.

Property	Test Method	Unit	Value
Melt Index	ASTM D1238	g/10 min	8.2
Flexural strength	ASTM D 790	MPA	1380.5
Tensile strength @ yield	ASTM D 638	MPA	22.8
Elongation @ yield	ASTM D 638	%	18.65

KR-Y3

Compound ABS copolymer

Description

KR-Y3 is a novel composite formula developed by Karina polymer Co. as an immense -flowing injection molding grade based on a MABS polymer. **KR-Y3** offers an unique combination of properties, such as a balanced stiffness/toughness ratio and the high transparency well known in SAN molding compositions.

Features

- Good resistance to chemicals
- Good Stiffness and surface finish
- High impact strength
- Excellent choice for metal painting

Colors

This product is only available in coal black color.

Property	Test Method	Unit	Value
Melt Index	ASTM D1238	g/10 min	8.5
Flexural strength	ASTM D 790	MPA	1580.5
Tensile strength @ yield	ASTM D 638	MPA	26.2
Elongation @ yield Izod	ASTM D 638	%	6
Impact Resistance	ASTM D 256	J/m	108.97



B SERIES

Compound PP copolymer

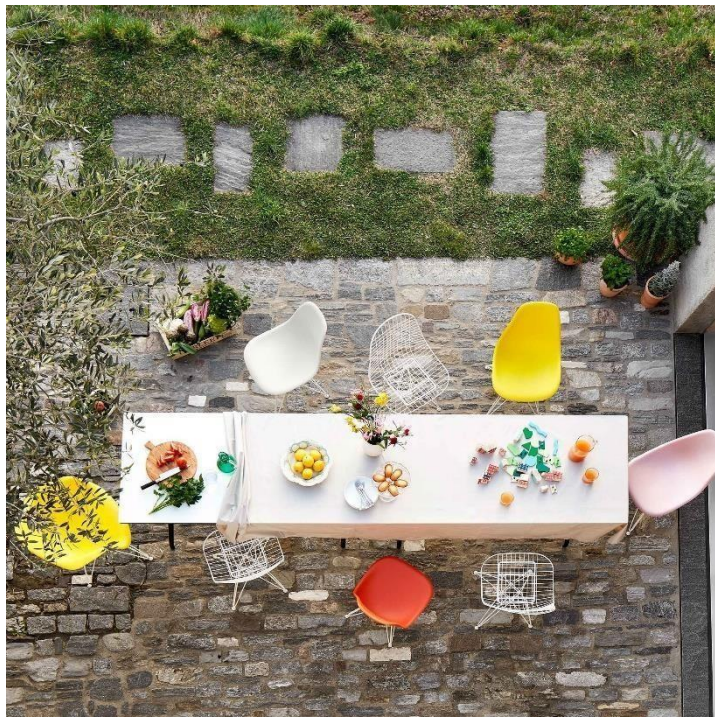
Description

Injection molding for small to medium-sized parts and devices such as home appliances, decorative flower boxes, electrical devices, etc.

Easy workability in injection line and appropriate balances between the product appearance and dimensional stability properties, make KR-B series an exceptional choice for all users in this range.

B10	B30	B40	B50	B60	B70	B90
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flexibility



KR-B10

Compound PP copolymer

Description

Injection molding for small to medium-sized parts and devices such as home appliances, Decorative flower boxes, electrical devices, etc.

Easy workability in injection line, and appropriate balances between the product

Appearance and dimensional stability properties, make KR-B10 an exceptional choice for all users in this range.

Colors

Black, White, grey, galaxy blue and curious blue. More colors can be customized to Individual manufacturers' requests.

Property	Test Method	Unit	Value
Melt index	ASTM D 1238	g/10min	6.76
Flexural modulus	ASTM D 790	MPA	1304.08
Tensile strength @ yield	ASTM D 638	MPA %	23.87
Elongation @ yield Izod	ASTM D 638	J/m	11.12
impact resistance	ISO 180		596.26



INJECTION GRADE

Best suited for **home appliances!**

INJECTION GRADE

Best suited for **plastic toys!**



KR-RF300

PP Compound

Description.

suitable for nonwoven fabrics for diapers, medical-sanitary applications, and wipes. Another typical application is a high tenacity continuous filament for straps for backpacks, sports bags, bulk bags, and safety belts. Continuous filament with medium tenacity is used for upholstery and sportswear.

KR-RF300 is also suited for the production of bulked continuous filament for carpets.

Properties	Test Method	Unit	Test Condition	Value
Melt Flow Index	ASTM D1238	g/10 min	2.16 kg /230°C	7
Izod Impact	ISO 180	J/cm ²	2.71J/Notched/23°C	3.96
Tensile Strength @yield	ISO 527	Mpa	Speed: 50mm/min Gauge length: 50	28.70
Elongation @ yield	ISO 527	%	Speed: 50mm/min Gauge length: 50	12.69
Flexural Modoulus	ASTM D790	Mpa	Speed: 1.3mm/min Deflection: 0.5cm	1261
VICAT	ASTM D1525	°C	10N	150.5
HDT	ISO 75	°C	Mpa 0.45	82.65
DSC	ISO 11357/6	°C	10°C/min N2 50ml/min	175
Density	ASTM D792	gr / cm ³	23°C	0.9519



Best choice for Jumbo bags...

KR-L1

PP Compound

Description

KR-L1 is a medium modified polypropylene random copolymer specially designed for injection molding & sheet extrusion.

KR-L1 offers excellent process ability in extrusion blow molding & can be converted on form-fill-seal equipment. The Product is also suitable for the extrusion of film & sheets for thermoforming.

KR-L1 offers a good impact strength, good clarity & high chemical resistance.

The main applications of this product are transparent bottles & containers for Cosmetics, chemical solutions, etc. Other applications are packaging for home appliances, automotive, and stationary products in the forms of film & sheet for thermoforming.

Colors

Colorless

Properties	Test Method	Unit	Value
Melt Index	ASTM D1238	g/10 min	26
Flexural Strength	ASTM D790	Mpa	1254
Tensile Strength @ Yield	ISO 527	Mpa	30.81
Elongation @ Yield	ISO 527	%	11.86
Izod Impact	ISO 180	J/m	5.94
VICAT	ASTM D1525	°C	127.5



KR-CRG3

Compound PE copolymer

Description

The product is classified to establish a good stress crack resistance properties (ESCR) combined with good impact strength.

KR-CRG3 is suitable for extrusion into a full range of pipe and fittings sizes, where high density resins are required.

KR-CRG3 is suitable for use in transport of a wide range of fluids for industrial, rural and extrusion grade engineering plastics applications.

Suitability for use in any application should be determined by appropriate performance testing.

Colors

Property	Test Method	Unit	Value
Melt index	ASTM D 1238	g/10min	0.22
Flexural modulus	ASTM D 790	MPA	843.99
Tensile strength @ yield	ASTM D 638	MPA %	22.71
Elongation @ yield Izod	ASTM D 638		12.45
impact resistance	ASTM D 256		NOT BREAK



EXTRUSION GRADE

Best suited for Standard **corrugated pipes!**



EXTRUSION GRADE

Best suited for Standard **Extrusion parts!**



KR-PR100

PE Compound

Description

KR-PR100 is a high-density polyethylene and is a natural, outstanding ESCR, made from natural color polyethylene powder raw material collaborated with high impact strength, outstanding hydrostatic strength for KR-PR100 class

Typical Application:

pipe extrusion KR-PR100 class, industrial and pressure pipe, gas pipe, drinking water pipe, fittings.

Colors

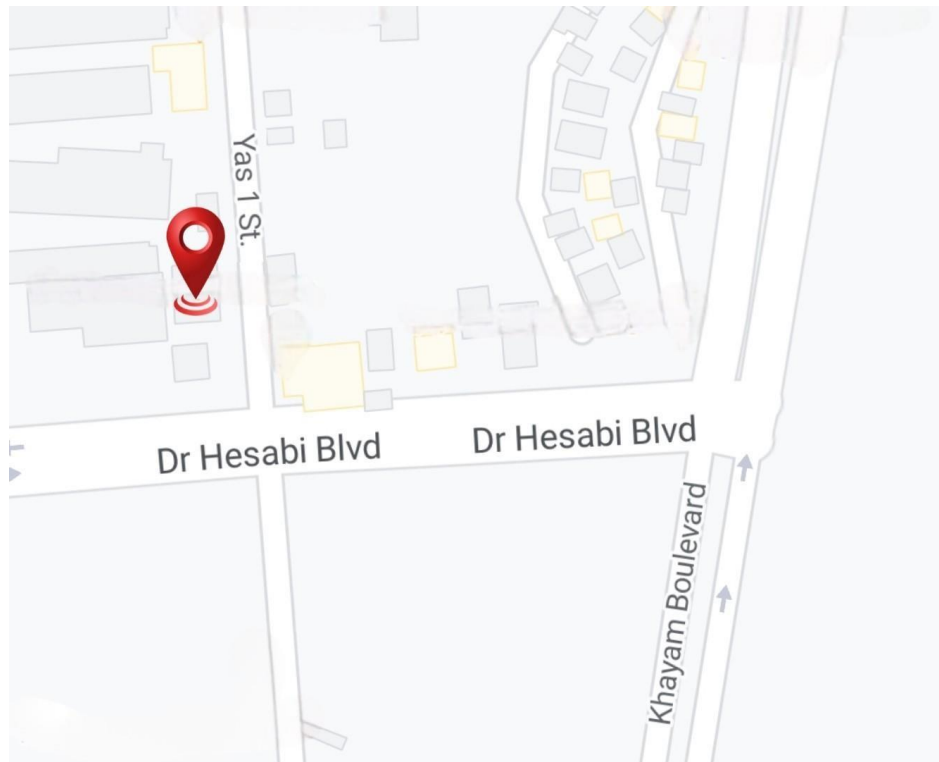
Natural Color

Properties	Test Method	Test Condition	Unit	Value
Melt Index	ASTM D1238	2.16 kg /190°C	g/10 min	0.2
Flexural Strength	ASTM D790	Speed: 1.3mm/min Deflection: 0.5mm	MPa	862
Tensile Strength @ Yield	ISO 527	Speed: 50mm/min Guage length: 50	MPa	23.66
Elongation @ Yield	ASTM D638	-	%	11.13
Izod Impact	ISO 180	2.71 J/notched/23°C	J/m	19.41
Density	ASTM D1505		g/cm ³	0.95
HDT	ISO 75	0.45 MPa	°C	62.5
VICAT	ASTM D1525	10N	°C	125
Ash content	ISO 3451/1	600°C / 30 min	%	0.35



All Types of pipes

Karina Polymer is Here



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