KiMPOL®
Polyester Polyols



HIGH PERFORMANCE FORMULATIONS

KiMPUR

Polyester Polyols

Polyester polyols are produced by the condensation reaction of dicarboxylic acids and glycols. Various monomer combinations and molecular weight selection of polyester polyols ensure superior mechanical properties for the polyurethane systems.

Kimpur is aware that there is a need for variety of high performance solutions to improve your products. Therefore, Kimpur produces **KIMpol® Polyester Polyols** which stem from combinations of multifunctional carboxylic acids & polyhydric alcohols, phthalic anhydride, and various functionalities with molecular weights for the best solution to industries including footwear industry (system component), paint industry, foam, elastomer and insulation industries (rigid foam applications).

Kimpur can fine tune polyester polyols depending on the properties.



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MAIN APPLICATIONS:

- Polyurethane systems for footwear industry
- Flexible and rigid foams
- Castings elastomers and TPU
- Polyurethane coatings
- Polyurethane adhesives

KIMpol® Polyester Polyols have superior advantages to take your products to next level.

ADVANTAGES

- **They can be tailor made for the properties requested.**
- **Synthesized with high purity monomers.**
- **Produced at high technology reactors.**
- **Reliable product quality.**
- **Broad product range for diverse applications**

Kimpur produces **KIMpol®** Polyester Polyols for the variable industries including footwear, flexible and rigid foam.

POLYESTER POLYOLS				
	Product Name	Description	OHV (mgKOH/g)	Viscosity (mPa.s)
Polyester Polyols for Footwear Systems	KIMPOL PE 001	Linear Aliphatic Polyester Polyol	52-58	3500-4000
	KIMPOL PE 002	Branched Aliphatic Polyester Polyol	59-65	950-1100
	KIMPOL PE 005	Linear Aliphatic Polyester Polyol	53-59	2800-3300
	KIMPOL PE 026	Branched Aliphatic Polyester Polyol	4448	1450-1750
	KIMPOL PE 033	Branched Aliphatic Polyester Polyol	54-60	2800-3300
	KIMPOL PE 034	Linear Aliphatic Polyester Polyol	50-56	675-775
	KIMPOL PE 041	Branched Aliphatic Polyester Polyol	56-60	3500-4000
	KIMPOL PE 044	Branched Aliphatic Polyester Polyol	56-60	5600-6400
	KIMPOL PE 045	Branched Aliphatic Polyester Polyol	55-61	4500-5000
	KIMPOL PE 046	Mixture of Polymeric and Branched Polyester Polyol	54-58	2800-3200
	KIMPOL PE 047	Mixture of Polymeric and Branched Polyester Polyol	52-58	3100-3700
	KIMPOL PE 048	Hydrolysis-resistant Branched Aliphatic Polyester Polyol	56-60	2750-3250
	KIMPOL PE 056	Branched Aliphatic Polyester Polyol	56-60	3500-4000
	KIMPOL PE 059	Branched Aliphatic Polyester Polyol	39-45	5750-6250
	KIMPOL PE 072	Branched Aliphatic Polyester Polyol	50-56	5600-6300
	KIMPOL PE 074	Linear Aliphatic Polyester Polyol	35-39	8550-9050
	KIMPOL PE 089	Fully Aliphatic Linear Adipic Acid Based Polyester Polyol	44-48	1200-1800
Polymeric Polyester Polyols for Footwear Systems	KIMPOL PE 016	Branched Polymeric Polyester Polyol	53-59	1800-2400
	KIMPOL PE 022	Linear Polymeric Polyester Polyol	50-56	1600-2000
	KIMPOL PE 024	Branched Polymeric Polyester Polyol	60-68	2300-2900
	KIMPOL PE 077	Branched Polymeric Polyester Polyol	76-80	1800-2200
Polyester Polyols for Flexible Foam Systems	KIMPOL PE 002	Branched Polyester Polyol for Slabstock Foam Production	59-65	900-1100
	KIMPOL PE 034	Suitable for Cast Elastomer Development	50-56	675-775
	KIMPOL PE 039	Branched Polyester Polyol for Slabstock Foam Production	58-62	17000-21000
	KIMPOL PE 040	Branched Polyester Polyol for Slabstock Foam Production	58-62	22000-25500
Polyester Polyols for Case Applications	KIMPOL PE 065	Linear Polyester Polyol for Adhesive and Elastomer	84-93	2800-3600
	KIMPOL PE 085	Branched Polyester Polyol for Slabstock Foam Production	205-225	580-780

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POLYESTER POLYOLS				
	Product Name	Description	OHV (mgKOH/g)	Viscosity (mPa.s)
Aromatic Polyester Polyols for Rigid Application	KIMPOL PE 003	General-purpose rigid polyester polyol. Suitable for spray and panel systems formulation.	305-325	2500-3000
	KIMPOL PE 035	Excellent flame resistance. Specially designed for PIR panels or block foam production.	250-270	1800-2200
	KIMPOL PE 036	Suitable for PIR/PUR panel and spray systems formulation. Highly compatible with pentane.	200-220	2300-2700
	KIMPOL PE 038	High flame resistance, improved processability, low viscosity.	230-250	11000 - 14000
	KIMPOL PE 042	General-purpose rigid polyester with enhanced pentane compatibility.	180-200	7000-8000
	KIMPOL PE 043	High flame resistance combined with excellent mechanical properties.	300-330	2900-3500
	KIMPOL PE 051	Polyester polyol with high pentane compatibility, suitable for the formulation of PIR/PUR panels and spray systems.	230-250	2300-2700
	KIMPOL PE 051-S	Highly pentane-compatible polyester polyol suitable for the formulation of PIR/PUR panels and spray systems.	225-245	2300-2700
	KIMPOL PE 067	General-purpose use with excellent mechanical properties.	295-315	10000-14000
	KIMPOL PE 073	General-purpose rigid polyester polyol. Suitable for the formulation of spray and panel systems.	230-250	8000-12000
	KIMPOL PE 078	General-purpose rigid polyester polyol, suitable for formulating spray and panel systems.	250-270	3300-4200
	KIMPOL PE 079	Used together with other rigid polyesters to enhance adhesion in rigid applications.	185-205	850-950
	KIMPOL PE 080	Adhesion promoter containing recycled raw materials, used with other rigid polyesters for rigid applications.	185-205	850-950
	KIMPOL PE 084	General-purpose rigid polyester polyol. Suitable for the formulation of spray and panel systems.	230 - 250	3000-3500
	KIMPOL PE 086	High-functionality rigid polyester for general-purpose applications.	515-535	4500-5500
	KIMPOL PE 087	High-functionality rigid polyester for general-purpose applications.	345-365	4500-5500
	KIMPOL PE 088	General-purpose rigid polyester polyol, suitable for the formulation of spray and panel systems.	180-200	4500-5500
	KIMPOL PE 090	General-purpose rigid polyester polyol, suitable for the formulation of spray and panel systems.	230-250	12500-14500
	KIMPOL PE 091	High flame resistance combined with excellent mechanical properties.	230-250	2500-3200
	KIMPOL PE 092	High-functionality and flame-resistant rigid polyester for general-purpose applications.	515-535	4500-5500
	KIMPOL PE 093	High-functionality and flame-resistant rigid polyester for general-purpose applications.	295-315	4200-4800
	KIMPOL PE 094	Material with high flame resistance, improved pentane compatibility, and enhanced mechanical properties.	295-315	10000-14000
	KIMPOL PE 095	Material with high flame resistance, improved pentane compatibility, and enhanced mechanical properties.	255-275	10000-14000
	KIMPOL PE 096	High-functionality and flame-retardant rigid polyester for general-purpose applications.	360-380	5500-7500
	KIMPOL PE 097	High-functionality and flame-retardant rigid polyester for general-purpose applications.	180-200	5000-7000
	KIMPOL PE 098	High resistance to flame combined with excellent mechanical properties.	275-395	7500-10000
	KIMPOL PE 100-A1015	General-purpose polyester polyol with a specific acidity range for rigid polyurethane foam applications	220 – 240	3100 - 4500
	KIMPOL PE 107	General-purpose polyester polyol for rigid polyurethane foam applications	230 – 250	3000 - 4000

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	Product Name	**Description**	**OHV (mgKOH/g)**	**Viscosity (mPa.s)**
Aromatic Polyester Polyols for Rigid Application	KIMPOL PE 099	Polyester polyol with high fire resistance and enhanced lambda performance. Contains flame retardant.	225 - 245	2500 - 4500
	KIMPOL PE 100	High-functionality and flame-retardant rigid polyester polyol for general-purpose applications.	220 - 240	3100 - 4500
	KIMPOL PE 101	High-functionality, flame-retardant rigid polyester polyol for general-purpose applications.	230 - 250	3000 - 4000
	KIMPOL PE 102	High flame resistance combined with excellent mechanical properties.	295 - 315	3700 - 4700
	KIMPOL PE 103	High-functionality and flame-retardant rigid polyester polyol for general-purpose applications.	250 - 270	4000 - 5000
	KIMPOL PE 104	Excellent mechanical properties combined with high flame resistance.	295 - 315	7500 - 8500
	KIMPOL PE 112	Aromatic polyester polyol for rigid foam applications.	230 - 250	2000-4500
	KIMPOL PE 114	Aromatic polyester polyol for rigid foam applications.	230 - 250	2000-4500
Bio-Polyols for Rigid Application	KIMPOL PE 061	Bio-based polyester polyol with high functionality and bio-content.	295-325	4000-4500
	KIMPOL PE 062	Bio-based polyester polyol with high functionality and high bio-content.	400-440	1500-2500
	KIMPOL PE 063 CL	Bio-based crosslinkers used to increase reaction rate and reactivity.	500-540	3000-4000
Polyester Polyols for OCF Application	KIMPOL PE 003	General-purpose rigid polyester polyol. Suitable for formulating spray and panel systems.	305-325	2500-3000
	KIMPOL PE 054	Modified polyester polyol with very low reactivity and high shelf-life stability.	170-190	3500-4000
	KIMPOL PE 075	Standard polyester material with balanced properties for OCF. Suitable for products with high flame resistance.	180-200	2800-3200
	KIMPOL PE 078	General-purpose polyester polyol suitable for use in OCF to enhance flame resistance and mechanical properties.	250-270	3300-4200
PET- based Polyester Polyols for Rigid Foam Applications	KIMPOL PE 145-RPT	ReMade® certified polyester polyol containing **28%** recycled PET, with high aromatic content and low viscosity, developed for rigid insulation board applications.	180-200	2000-5000

For more detailed information about the products, as well as TDS and MSDS documents, please contact our sales office.

TÜRKİYE'S LARGEST POLYURETHANE SYSTEM HOUSE

Kimpur is the polyurethane system house with the largest capacity in the region, with a production capacity exceeding 200,000 tons. It leads the sector by exporting to more than 60 countries in 5 continents. Polyurethane systems produced; It is used in different sectors such as shoes, automotive, furniture, heating and cooling, insulation-construction and defense industry.

GLOBAL ACTIVITIES



TÜRKİYE'S TOP 50 ISO INDUSTRIAL ENTERPRISES

TOP 1000 EXPORTERS OF TÜRKİYE (TİM: TURKISH EXPORTERS ASSEMBLY)

TÜRKİYE'S LARGEST 500 FORTUNE COMPANIES

İKMİB İstanbul Chemicals And Chemical Products Exporters' Association Stars of Exports

Turkishtime R&D 250 TURKISH COMPANIES WITH THE HIGHEST R&D EXPENSES

REACH COMPLIANCE

United Nations Global Compact

Responsible Care® OUR COMMITMENT TO SUSTAINABILITY

Kimpur Corporate Promotional Film
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KİMPUR

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LEGAL INFORMATION

At Kimpur, we strive to provide you with the highest quality polyurethane systems, backed by our expertise and dedication to innovation. The information provided in this brochure is a reflection of our expertise and knowledge. However, we highly recommend for users to conduct their own thorough assessments and tests to ensure the suitability and optimal performance of our products for their intended applications. While we strive to provide accurate and reliable information, Kimpur does not assume any liability or offer any warranty, whether expressed or implied, regarding the properties, performance, or fitness for a particular purpose of our products. Descriptions, specifications, and other details provided herein are subject to change without prior notice and should not be considered as binding contractual guarantees. As the recipient of our products, our customers assume full responsibility for compliance with all applicable laws, regulations, and intellectual property rights. We highly recommend obtaining comprehensive information on product toxicity, adhering to proper handling procedures, and ensuring compliance with safety and environmental standards. At Kimpur, we value our partnership with you and strive to provide exceptional support. However, it is important to emphasize that the application, use, and processing of our products are ultimately the sole responsibility of the user. Please note that the safety data provided in this brochure is for informational purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). To obtain the relevant MSDS, kindly request it from your supplier or contact us directly at uncommonsolutions@kimpur.com. Our team is ready to assist you with any inquiries or specific safety information you may need.

Edition: 2026