



MENGWEI
ADVANCED MATERIALS

02

— DIVISION 02

Flexible Foam & Specialty Polyols

SLABSTOCK · POLYMER POLYOLS · CASE · HIGH-EO

01 Rigid Foam PU Systems

02 Flexible & Specialty Polyols

03 PU Waterproofing & Grouting

04 Polyurea Spray Systems

05 MS Polymer & Sealants

06 PU Additives & Catalysts

07 Specialty Surfactants & Industrial Chemicals

*Engineered to global specifications — one-stop
polyurethane raw materials & systems.*

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MENGWEI flexible polyether polyols and polymer polyols (POP) serve mattress, furniture, automotive seating and footwear manufacturers, together with a broad specialty range for CASE (coatings, adhesives, sealants, elastomers), high-EO leather resins and high-resilience systems. All grades are low-potassium (PU grade) and supplied to consistent, narrow specifications.

BHT-free slabstock

Wide-density slabstock polyols free of BHT for low-emission foam.

Low-VOC HR

Low-monomer, low-odour polymer polyols for premium HR cushions.

Specialty depth

High-EO leather resins, shoe-sole and elastomer grades from one supplier.

Flexible Slabstock & HR Polyols

MwEol-F

Base polyether triols for slabstock and high-resilience foam.

GRADE	OH VALUE (MGKOH/G)	MOL. WEIGHT	VISCOSITY 25°C (MPA·S)	APPLICATION
MwEol-F35	46–50	3 500	600–700	BHT-free wide-density slabstock
MwEol-F30	54–58	3 000	400–650	BHT-free wide-density slabstock
MwEol-F50H	32–36	5 000	800–1 000	High resilience — car seat, steering wheel

Polymer Polyols (POP)

MwEol-P

Graft (styrene-acrylonitrile) polymer polyols for load-bearing flexible foam.

GRADE	SOLID CONTENT (%)	OH VALUE (MGKOH/G)	VISCOSITY 25°C (MPA·S)	APPLICATION
MwEol-P10	~10	9.5–10.5	800–1 000	Furniture cushions, auto seats
MwEol-P13	~13	12.5–14.5	900–1 300	Furniture cushions, auto seats
MwEol-P15	~15	14–16	900–1 300	Furniture cushions, auto seats
MwEol-P25	~25	23–27	1 300–1 800	Furniture cushions, auto seats
MwEol-P45	~45	44–47.5	3 500–5 000	High-load premium cushions, auto seats
MwEol-P30H	~30	26–30	≤3 500	Low-monomer HR, cold-cure, integral skin
MwEol-P40L	~40	38.5–41.5	≤6 000	Low-VOC/odour HR, cold-cure, integral skin

High-EO / High-Activity Polyols

MwEol-E

High ethylene-oxide and high-activity polyethers for leather resin, footwear and HR sponge.

GRADE	OH VALUE (MGKOH/G)	MOL. WEIGHT	FORM	APPLICATION
MwEol-E1000	105–120	1 000	Solid	Leather resin (waterproof-breathable)
MwEol-E2003	54–58	2 000	Solid	Leather resin



GRADE	OH VALUE (MGKOH/G)	MOL. WEIGHT	FORM	APPLICATION
MwEol-E3000	32–35	3 000	Solid	Leather resin
MwEol-E4240	31–36	3 300	Liquid	Hydrophilic leather resin (EO+PO)
MwEol-E3500	33–36	5 000	Liquid	Memory-foam cell opener
MwEol-E3054	52–56	3 100	Liquid	Low-density shoe sole, adhesives
MwEol-E820	26–30	4 000	Liquid	Low-density shoe sole, adhesives
MwEol-E6028	28–32	11 000	Liquid	High-resilience sponge
MwEol-E10K	10.2–12.5	10 000	Powder	High-end rubber, carbon-black dispersant
MwEol-E20K	5–6.2	20 000	Powder	High-end rubber, carbon-black dispersant

CASE Polyols

MwEol-C

Polyether di- and tri-ols for coatings, adhesives, sealants and elastomers.

GRADE	OH VALUE (MGKOH/G)	MOL. WEIGHT	VISCOSITY 25°C (MPA·S)	APPLICATION
MwEol-C04	265–295	400	40–120	Leather coating, PU adhesives
MwEol-C10	108–115	1 000	120–180	Leather coating, PU adhesives
MwEol-C20	54–58	2 000	270–370	Leather coating, PU adhesives
MwEol-C30	36–39	3 000	500–600	Leather coating, PU adhesives
MwEol-C40	26–30	4 000	800–1 000	Leather coating, PU adhesives
MwEol-C60	18–20	6 000	1 200–1 800	Leather coating, PU adhesives
MwEol-C80	13–15	8 000	2 300–3 500	Leather coating, PU adhesives
MwEol-C30T	54–58	3 000 (triol)	400–700	Leather coating, PU adhesives

CASE Polyester Polyols

MwEol-CP

Polyester polyols for high-performance coatings, adhesives, sealants and elastomers.

GRADE	OH VALUE (MGKOH/G)	VISCOSITY 25°C (MPA·S)	CHARACTERISTICS
MwEol-CP56	56	4 200 (80°C)	High strength and adhesion
MwEol-CP70	70	1 900	Low viscosity, good operability
MwEol-CP175	175	3 800	Improved substrate adhesion
MwEol-CP180	180	3 300	Excellent hydrolysis stability, improved adhesion

Mono-functional Polyethers

MwEol-M

Single-functionality polyethers for additive use.



GRADE	OH VALUE (MGKOH/G)	MOL. WEIGHT	VISCOSITY 25°C (MPA·S)	APPLICATION
MwEol-M10	54–58	1 000	80–150	Coating additive (hydrophobic)
MwEol-M11	49–53	1 100	100–170	Lubricating-oil additive
MwEol-M10S	54–58	1 000	70–120	Silicone-oil / PAG base-oil additive

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