



# Polyurethane Raw Material Product Brochure



Updated December 2024

# Raw Materials – Polyols



Product Class	Product Name	Chemical Description	Nominal Functionality	Typical OH No. mg KOH/g	Viscosity, mPas	Typical Molecular Weight	Contains EO	Solids %	Features & Applications
EO Capped Triols	Hyperlite E-824	Base Long-Chain	3.0	36	810	4680	Yes	–	Medium reactivity Used in flexible foam, CASE & composite applications
	Arcol 11-34	Base Long-Chain	3.0	35	860	4800	Yes	–	Lower reactivity Used in flexible, semi-rigid & open-cell spray foam applications
	Hyperlite E-863	Base Long-Chain	3.8	31.5	1050	6770	Yes	–	Medium reactivity, fast de-mold Used in high resilience (HR) molded foam and semi-rigid applications
	Multranol 9139	Base Long-Chain	3.0	28	1150	6000	Yes	–	Medium reactivity Used in flexible foam, automotive systems, CASE & composite applications
	Multranol 3901	Base Long-Chain	3.0	28	1170	6000	Yes	–	Medium reactivity Used in flexible foam, automotive systems, open-cell spray foam, CASE & composite applications
High EO Polyol	Multranol 9199	Base Long-Chain	3.0	37	1500	4500	Yes	–	EO mixed-feed cell opener Flexible foam, automotive molded foam, semi-rigid foam

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Internal EO Triols	Arcol F-3022	Base Long-Chain	3.0	56	490	3000	Yes	–	Lower reactivity Used in conventional slabstock foams
	Arcol F-3040	Base Long-Chain	3.0	56	585	2860	Yes	–	Lower reactivity Used in conventional slabstock foams
	Arcol F-3222	Base Long-Chain	3.0	52	520	3240	Yes	–	Lower reactivity Used in conventional slabstock foams
PO Triols	Multranol 9133	Base Short-Chain	3.0	1050	1350	160	No	–	Glycerin initiated Used in rigid, semi-rigid foam & composite applications
	Arcol LG-650	Base Short-Chain	3.0	650	820	260	No	–	Glycerin initiated Used in viscoelastic flexible foam, rigid, semi-rigid foam & composite applications
	Multranol 9158	Base Short-Chain	3.0	470	470	356	No	–	Glycerin initiated Used in viscoelastic flexible foam, rigid, semi-rigid foam & composite applications
	Multranol 8175	Base Short-Chain	3.0	370	320	450	No	–	Glycerin initiated Used in viscoelastic flexible foam, rigid, semi-rigid foam, CASE & composite applications

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PO Triols (continued)	Arcol LHT-240	Base Short-Chain	3.0	238	250	707	No	—	Glycerin initiated Used in viscoelastic flexible foam, rigid, semi-rigid foam, CASE applications
	Softcel U-1000	Base Short-Chain	3.0	168	220	1000	No	—	Glycerin initiated Used in viscoelastic flexible foam, rigid, semi-rigid foam, CASE applications
	Arcol LHT-112	Base Long-Chain	3.0	112	280	1500	No	—	Glycerin initiated Used in viscoelastic flexible foam & CASE applications
	Arcol LHT-42	Base Long Chain	3.0	57	700	4200	No	—	Glycerin initiated Used in viscoelastic flexible foam & CASE applications
	Arcol LG-56	Base Long-Chain	3.0	56	280	3000	No	—	Glycerin initiated Used in CASE applications
EO Capped Diols	Arcol E-351	Base Long-Chain	2.0	40	490	2800	Yes	—	Lower reactivity Used in CASE applications
	Multranol 9111	Base Long-Chain	2.0	28	820	4000	Yes	—	Medium reactivity Used in microcellular foams & CASE applications
	Multranol 9190	Base Long-Chain	2.0	28	830	4000	Yes	—	Higher reactivity Used in microcellular foams & CASE applications

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PO Diols	Multranol 9198	Base Short-Chain	2.0	515	60	220	No	—	Propylene Glycol initiated Used in microcellular foams & CASE applications
	Arcol PPG-425	Base Short-Chain	2.0	263	70	426	No	—	Propylene Glycol initiated Used in CASE applications
	Arcol PPG-725	Base Short-Chain	2.0	147	125	763	No	—	Propylene Glycol initiated Used in CASE applications
	Arcol PPG-1000	Base Long-Chain	2.0	111	164	1000	No	—	Propylene Glycol initiated Used in CASE applications
	Arcol Polyol PPG-1025	Base Long-Chain	2.0	56	155	1020	No	—	Propylene Glycol initiated Used in CASE applications
	Arcol PPG-2000	Base Long-Chain	2.0	56	370	2000	No	—	Propylene Glycol initiated Used in CASE applications
	Arcol PPG-3025	Base Long-Chain	2.0	37	580	3000	No	—	Propylene Glycol initiated Used in CASE applications

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PO Diols (continued)	Arcol PPG-4000	Base Long-Chain	2.0	28	980	4000	No	—	Propylene Glycol initiated Used in CASE applications
	Acclaim 8200	Base Long-Chain	2.0	14	3030	8000	No	—	Propylene Glycol initiated, low monol content Used in CASE applications
Amine/Co-initiated Polyols	Multranol 9181	Base Short-Chain	4.0	770	36000	300	No	—	Amine initiated Used in rigid foam, semi-rigid foam & CASE applications
	Multranol 4050	Base Short-Chain	4.0	630	18000	360	No	—	Amine initiated Used in rigid foam, semi-rigid foam & CASE applications
	Multranol 4063	Base Short-Chain	4.0	460	1800	490	Yes	—	Amine initiated Used in rigid foam, semi-rigid foam & CASE applications
	Multranol 8114	Base Short-Chain	4.0	395	8800	590	Yes	—	Amine initiated Used in rigid foam & semi-rigid foam applications
	Multranol 8120	Base Short-Chain	4.0	360	24800	620	No	—	Amine initiated Used in rigid foam & semi-rigid foam applications

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Amine/Co-initiated Polyols (continued)	Multranol 9138	Base Short-Chain	3.0	700	785	240	No	—	Amine initiated Used in rigid foam, semi-rigid foam & CASE applications
	Multranol 9168	Base Long Chain	4.0	60	675	3740	No	—	Amine initiated Used in rigid & semi-rigid foam applications
	Multranol 9170	Base Short-Chain	3.0	350	275	490	No	—	Amine initiated Used in rigid & semi-rigid foam applications
Sucrose/Co-initiated Polyols	Multranol 4034	Base Short-Chain	5.2	470	33000	630	No	—	High cross-linking for enhanced dimensional stability Used in rigid structural, insulation & spray foam applications
	Multranol 8162	Base Short-Chain	4.4	410	3600	590	No	—	Medium cross-link density with lower viscosity Used in rigid structural, insulation & spray foam applications
	Multranol 8164	Base Short-Chain	4.6	470	11000	550	No	—	Medium cross-link density Used in rigid structural, insulation & spray foam applications
	Multranol 4035	Base Short-Chain	3.0	380	530	440	No	—	Lower cross-link density with low viscosity Used in automotive, insulation foams & specialty applications

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Polymer Polyols	Hyperlite E-852	Polymer Filled	3.0	19.6	5550	—	Yes	45	Medium reactivity, high polymer level Used in high resilience (HR) flexible foam, automotive molded foam & semi-rigid foam applications
	Arcol HS-200	Polymer Filled	3.0	25.5	4500	—	Yes	49	Lower reactivity, high polymer level Used in flexible foam & semi-rigid foam applications
	Desmophen 7619W	Polyurea Filled	3.0	28.5	3600	—	Yes	20	Medium reactivity, medium polymer level, enhanced flamability performance Used in high resilience (HR) flexible foam, automotive molded foam & semi-rigid foam applications
	Ultracel 3000	Polymer Filled	4.6	30	1700	—	Yes	10	Medium reactivity, low polymer level, enhanced comfort factor Used in high resilience (HR) flexible foam applications



# Raw Materials – Isocyanates



Product Class	Product Name	Chemical Description	Nominal Functionality	%NCO	Viscosity, mPas @ 25C	Features & Applications
TDI Isocyanates & Blends	Mondur TD 80 Grade A	TDI	2.0	48	5	Excellent flowability, low acid Used in flexible and molded foam applications
	Mondur TD 80 Grade B	TDI	2.0	48	5	Excellent flowability, high acid Used in flexible and molded foams & prepolymer applications
	Mondur TD 65	TDI	2.0	48.2	3	Unique isomer ratio, low acid Used in flexible and molded foams, prepolymer & specialty applications
	Mondur TD 65 Grade E	TDI	2.0	48.2	3	Unique isomer ratio, low acid Used in flexible and molded foams, prepolymer & specialty applications
	Mondur TDS	TDI	2.0	48	3	Low acid Used in low free TDI monomer prepolymer applications
	Mondur TDS Grade E	TDI	2.0	48	3	High acid Used in low free TDI monomer prepolymer applications
	Mondur 445	TDI/MDI Blend	2.1	44.9	5	Excellent flowability; High monomer content Used in flexible molded foam applications

# Raw Materials – Isocyanates



Product Class	Product Name	Chemical Description	Nominal Functionality	%NCO	Viscosity, mPas @ 25C	Features & Applications
MDI Isocyanates	Mondur 3694	MDI	2.2	32.7	26	High monomer, Medium 2,4-mMDI Used in viscoelastic flexible & molded foam applications
	Mondur 1488	MDI	2.3	32.8	28	High monomer, High 2,4-mMDI Used in high-resiliency (HR) flexible & molded foam, flexible NVH foam applications
Modified Isocyanates	Mondur 1566	Modified mMDI	2.0	33	12	High monomer, high 2,4-mMDI Used in elastomers, microcellular foams & binder applications
	Mondur PF	Modified mMDI	2.0	23	650	mMDI prepolymer Used in elastomers, microcellular foams & binder applications
	Mondur CD	Modified mMDI	2.1	29.5	35	Carbodiimide modified mMDI Used in elastomers, microcellular foams & binder applications
	Mondur PC	Modified mMDI	2.1	26	110	Carbodiimide modified mMDI prepolymer blend Used in elastomers, microcellular foams & binder applications
Polymeric MDI	Mondur 448	pMDI	2.2	27.5	140	Medium 2,4-mMDI / modified pMDI blend Used in flexible molded, elastomers, microcellular foams & binder applications
	Mondur MRS-2	pMDI	2.3	32.5	25	High 2,4-mMDI content pMDI Used in flexible molded, microcellular foams & binder applications

# Raw Materials – Isocyanates



Product Class	Product Name	Chemical Description	Nominal Functionality	%NCO	Viscosity, mPas @ 25C	Features & Applications
Polymeric MDI (continued)	Isocyanate HC-741	pMDI	2.4	27.2	300	pMDI / mMDI prepolymer Used in semi-rigid, microcellular foams & binder applications
	Mondur MRS-4	pMDI	2.4	32.2	45	High 2,4-mMDI content pMDI Used in flexible molded, microcellular foams & binder applications
	Mondur 582	pMDI	2.5	32.1	55	High 2,4-mMDI content pMDI Used in flexible molded, microcellular foams & binder applications
	Mondur MR-5	pMDI	2.5	32.1	70	Medium functionality pMDI Used in flexible molded, microcellular foams & binder applications
	Mondur 1522	pMDI	2.6	31.9	65	Medium 2,4-mMDI content pMDI Used in flexible molded, microcellular foams & binder applications
	Mondur MR / MR Light	pMDI	2.7	31.3	200	Standard functionality pMDI Used in rigid foams & binder applications
	Mondur MRS	pMDI	2.7	31.5	200	Standard functionality pMDI with higher 2,4-mMDI content Used in coatings & adhesives applications
	Mondur 489	pMDI	3.0	30.7	700	High functionality pMDI Used in rigid polyurethane & polyisocyanurate foam applications

## Raw Materials – Isocyanates



Product Class	Product Name	Chemical Description	Nominal Functionality	%NCO	Viscosity, mPas @ 25C	Features & Applications
Monomeric MDI	Mondur MLQ	mMDI	2.0	33.4	10	High 2,4-mMDI content monomeric MDI Used in flexible molded foams, adhesives, binder & prepolymer applications
	Mondur MB	mMDI	2.0	33.4	—	High 4,4'-monomeric MDI stablized with BHT Used in prepolymer & TPU applications
	Mondur MQ	mMDI	2.0	33.4	—	High 4,4'-monomeric MDI with phenolic stabilizer Used in prepolymer applications
Allophanates	Mondur MA 2300	mMDI Allophanates	2.0	23	450	Modified monomeric MDI Used in elastomer, coatings & adhesives applications
	Mondur MA 2603	mMDI Allophanates	2.0	16	1050	Modified monomeric MDI Used in elastomer, coatings & adhesives applications

\*All the isocyanates above are available as CQ (circular) products using the Mass Balance approach with the CQ labeling and the suffix of MB (bio-attributed) or MS (bio-circular) (i.e., Mondur CQ TD 80 MS)