

Product List: Prepolymers



Polyester-MDI Prepolymers

Product Code	%NCO	Polyol Type	Specific Gravity	Viscosity	MDI Average Functionality	General Description
MSA-018	23.0	Ester	1.204	1000 cps at 77 °F	< 2.1	Quasi prepolymer based on polyester. Maybe used in quasi-elastomer and flexible foam
MSA-031	13.5	Ester	1.189	300 cps 180 °F	< 2.2	Ester based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 60 D hardness elastomer. This can also be used as a quasi prepolymer as well as precursor for many custom formulations.
MSA-042	10	Ester	1.190	750 cps at 180 °F	< 2.2	Ester based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 95 A hardness elastomer. This can also be used as precursor for many custom formulations.
MSA-052	8.1	Ester	1.181	1500 cps at 180 °F	< 2.2	Ester based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 90 A hardness elastomer. This can also be used as precursors for many custom formulations.
MSA-063	6.7	Ester	1.178	1600 cps at 180 °F	< 2.1	Ester based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 85 A hardness elastomer. This can also be used as precursor for many custom formulations.

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PTMEG-MDI Prepolymers

Product Code	%NCO	Polyol Type	Specific Gravity	Viscosity	MDI Average Functionality	General Description
<u>MGA-018</u>	23.0	PTMEG	1.158	900 cps at 77 °F	< 2.1	Quasi prepolymer based on PTMEG. Maybe used in quasi elastomer, precursor for coatings and adhesives.
<u>MGA-036</u>	11.7	PTMEG	1.088	1000 cps at 180 °F	< 2.2	PTMEG based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 50 D hardness elastomer. This can also be used as precursor for many custom formulations.
<u>MGA-044</u>	9.5	PTMEG	1.066	700 cps at 180 °F	< 2.1	PTMEG based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 95 A hardness elastomer. This can also be used as precursor for many custom formulations.
<u>MGA-048</u>	8.7	PTMEG	1.068	900 cps at 180 °F	< 2.1	PTMEG based prepolymer with medium high NCO. When cured with 1,4 butanediol, it makes Durometer 90 A hardness elastomer. This can also be used as precursor for many custom formulations.
<u>MGB-024</u>	17.8	PTMEG	1.136	1200 cps at 72 °F	< 2.1	Quasi prepolymer based on 1000 MW PTMEG. Maybe used in quasi elastomer formulations. Advantages in formulating harder range elastomer. May be used in precursor for coatings and adhesives.

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PPG-MDI Prepolymers

Product Code	%NCO	Polyol Type	Specific Gravity	Viscosity	MDI Average Functionality	General Description
MPA-053	8.0	PPG	1.073	9000 cps at 77 °F	2.0	PPG based prepolymer may be used for room-temperature-cure full-prepolymer formulas. When cured with 1,4 butanediol, it makes 80 A Durometer elastomer with good physical properties for this class of material. It can also be used as precursor to adhesives and coatings.
MPC-022	19.0	PPG	1.14	1000 cps at 77 °F	< 2.1	PPG based prepolymer may be used for room-temperature-cure quasi formulas, flexible foams, and a wide variety of polyether-based formulations. Relatively stable in low temperature.

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Specialty Prepolymers

Product Code	%NCO	Polyol Type	Specific Gravity	Viscosity	MDI Average Functionality	General Description
Moisture Cure Particle Bonding Prepolymers	NA	PPG	1.05 - 1.235	100 - 40000 cps at 77 °F	< 2.7	Moisture-cure variable-hardness polyurethane adhesive system designed to be used with recycled ground rubber, polymer foam, as well as other particles such as cork granules, wood and pulp fiber/particles/powder to make various recycled foam and other bonded particle products.

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Polymeric MDI

Product Code	%NCO	Polyol Type	Specific Gravity	Viscosity	MDI Average Functionality	General Description
MNB-013	31.4	NA	1.235	180 cps at 77 °F	2.7	Standard and most common polymeric MDI for foams, adhesives, elastomer, and a wide range of applications.

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