

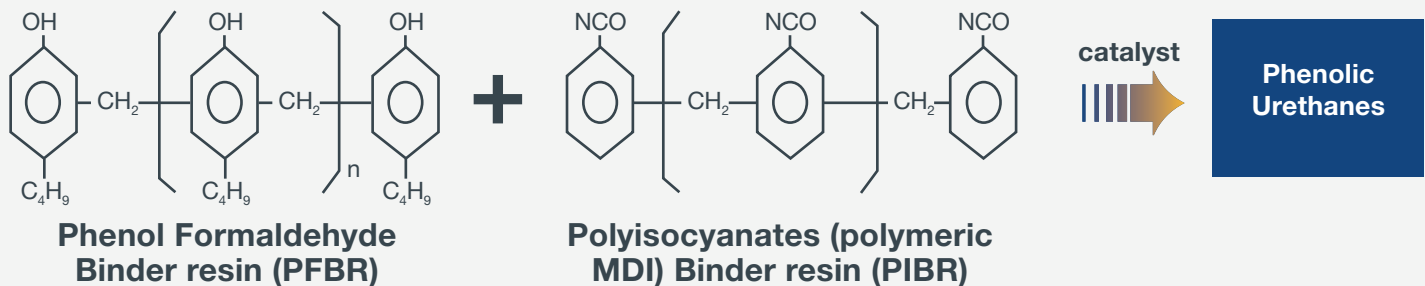


FlexaTrac™-DME

FOR FOUNDRY RESINS

FlexaTrac-DME

In the production of phenolic urethane molds for metal casting, FlexaTrac-DME can be used as a carrier solvent for phenol formaldehyde binder resin (PFBR). This PFBR is then mixed with polyisocyanates binder resin (PIBR) and catalyzed to create phenolic urethane molds.



FlexaTrac can be used to make up 10-40% of the phenol binder resin used in no-bake metal casting or phenolic urethane cold box production.

No-bake metal casting process

No-bake metal casting involves room temperature curing of two or more binder components in presence of sand and liquid curative or catalyst.

Phenolic urethane cold box process

In cold box metal casting, binder components are cured together at room temperature in presence of sand and gaseous curative.

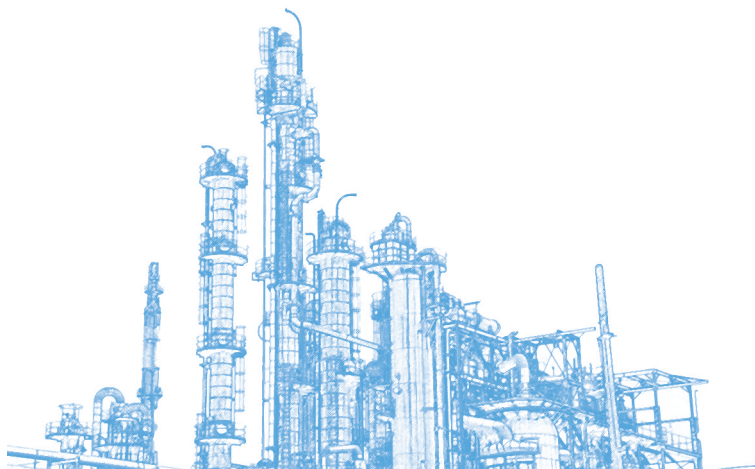
FlexaTrac-DME

- Excellent polymer solvency
- Mild to no odor
- Excellent HSE profile
- Controlled solvent evaporation rate
- High miscibility with most organic solvents
- Readily biodegradable
- Clear and colorless liquids



	FlexaTrac-DME-100	FlexaTrac-DME-200	FlexaTrac-DME-300	FlexaTrac-DMS-400	FlexaTrac-DMG-500	FlexaTrac-DMA-600
Chemical Properties						
Dimethyl Succinate, wt. %	17-25	1.0 max.	1.0 max.	98.5 min.	1.0 max.	1.0 max.
Dimethyl Glutarate, wt. %	59-73	72-76	8-12	1.0 max.	99.0 min.	1.0 max.
Dimethyl Adipate, wt. %	10-14	23-27	87-91	1.0 max.	1.0 max.	99.0 min.
Acid Content, mg KOH/g, max.	0.3	0.1	0.1	0.1	0.1	0.1
Water Content, wt. %, max.	0.1	0.1	0.1	0.1	0.1	0.1
Methanol Content, wt. %, max.	0.2	0.1	0.1	0.1	0.1	0.1
Color, APHA, max.	15	15	15	15	15	15
Physical Properties						
Molecular Weight	159	163	172	146	160	174
Distillation Range, °C	195-216	203-220	211-229	192-201	203-214	216-230
Density, #/gal, @ 25°C	9.10	8.98	8.83	9.28	9.03	8.82
Specific Gravity @ 25°C	1.091	1.076	1.058	1.112	1.082	1.057
Viscosity, cps, @ 25°C	3.88	3.31	3.71	3.91	3.66	4.33
Solubility in Water, wt. %	5.5	4.3	2.6	10.3	5.1	2.1
Water Solubility in DMEs, wt. %	3.6	3.2	2.8	4.0	2.9	2.9
Freezing Point, °C	-40.0	-42.4	2.8	16.8	-37.5	9.4
Flash Point, °F (Pensky-Martin cc)	212	226	235	201	224	255
Flash Point, °C (Pensky-Martin cc)	100	108	113	94	107	124
Surface Tension, dynes/cm	35.3	35	32.5	34.6	35.6	35.1
Electrical Resistance, megohms	1.3	1.9	3.0	1.3	2.3	5.0
Vapor Pressure, @ 20°C (Torr)	0.06	0.04	0.02	0.12	0.05	0.01

*NOTE: Product specifications are subject to change without notice. Please write or call us for our current product specifications.



About Ascend

Headquartered in Houston, Texas, Ascend Performance Materials is the world's largest fully-integrated producer of nylon 6,6 resin. As the world's only large-scale converter of acrylonitrile to adiponitrile, Ascend is uniquely positioned for the production of dozens of amines, acids, esters and intermediates used in a variety of end applications. Our integrated manufacturing processes allow us to produce a wide range of specialty chemicals. Ascend's specialty chemicals are used in hundreds of brand-name adhesives, coatings, cleansers and detergents. Ascend manufactures chemicals at its facilities in Texas, Alabama and Florida.

For more information on our specialty chemicals visit us at www.ascendmaterials.com/specialtychemicals

inspiring everyday™