



Polymerisation solvents



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Hydrocarbons derived from crude naturally contain significant amounts of unwanted impurities which are detrimental to the polymerisation processes. With our Fischer- Tropsch process we produce synthetic hydrocarbons containing only a few of these unwanted impurities. Through further hydro treating and other purification steps, we reduce these impurities even further to acceptable levels and beyond.

The high level of purity, being free of catalysts poisons such as oxygenates, sulphur, carbonyls, cyclic compounds or dienes and the relative inertness of our **PolyPar™** range make them suitable solvents or diluents for the polymerisation industry. They find use as reaction solvent in *solution phase polymerisation* to produce linear low density polyethylene (LLDPE) and high density polyethylene (HDPE), in *slurry phase processes* to produce polypropylene (PP) or various grades of polyethylene (PE) and in *gas phase processes* as catalyst or external donor carriers, and as diluents for peroxide to control rheology during the extrusion process.

Low aromatic (especially poly aromatic) levels and low benzene content makes our hydro treated **PolyPar™** range of synthetic hydrocarbons suitable for food contact applications.

Typical specifications for Sasol Wax **PolyPar™**

Properties	Units	Product			
		PolyPar™ 50	PolyPar™ 100	PolyPar™ 150	PolyPar™ 200
Benzene	ppm	50	<10	<1	<1
Aromatics	ppm	50	50	50	50
Chlorides	ppm	<1	<1	<1	<1
Initial boiling point	°C	50	100	150	200
Dry point	°C	100	125	200	240
Odour		Neutral	Neutral	Neutral	Neutral
Bromine index	mg Br/100 g	<10	<10	<10	<10
Sulphur	ppm	<1	<1	<1	<1

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