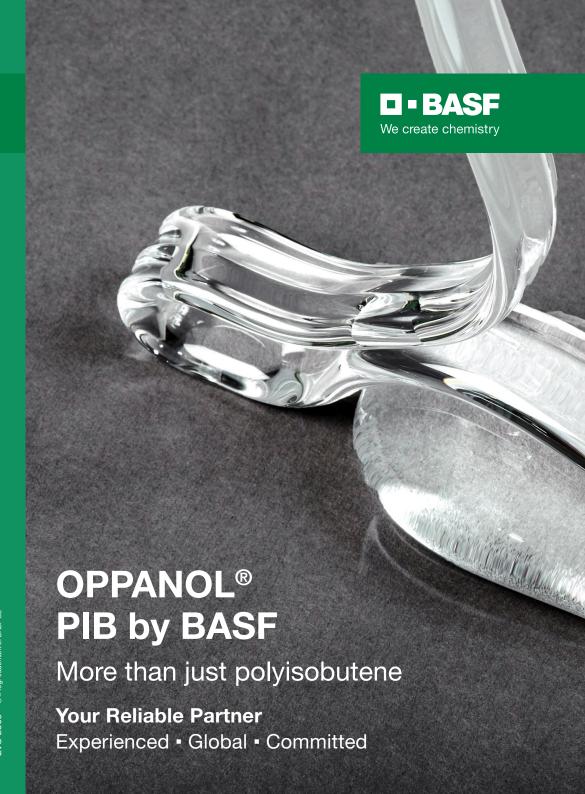
Fuel and Lubricant Solutions

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OPPANOL® B		10 SFN	11 SFN	12 SFN	13 SFN	14 SFN	15 SFN	OPPANOL
OFFANOL B		10 N		12 N			15 N	OFFAROL
Stabilizer [ppm]	no	no	no	no	no	no	Stabilizer [p	
(average BHT concentration)		500		500			500	(average BH
Specification								Specification
Staudinger Index Jo* [cm³/g]		27.5-31.2	30.7-36.0	34.5-39.0	39.0-43.0	42.5-46.4	45.9-51.6	Staudinger
Typical characteristic	S							Typical cha
Average molecular weight M _v (viscosity average)		40,000	47,000	55,000	65,000	73,000	85,000	Average mo (viscosity av
Average molecular weight M _w (weight average) Expressed in equivalents of PS		53,000		70,000			108,000	Average mo (weight aver Expressed i
Average molecular we distribution M _w /M _n	ight	3.2		3.2			3.2	Average mo
Volatiles, 150 °C, 4h, 150 mbar [%]		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	Volatiles, 15 150 mbar [%
Fluorine [ppm]			Fluorine [p					
Chlorine [ppm]			Chlorine [p					
Ash content [ppm]			Ash conten					
Typical properties								Typical pro
Appearance			Appearance					
Color			Color					
Glass transition temperature [°C]			Glass trans					
Specific heat [kJ/(kg*K)]			Specific hea					
Heat conductivity [W/(m*K)]			Heat condu					
Relative Permittivity (100 Hz, 1 mm, RT)	IEC 60250	2.7						
Specific resistance [Ωcm]	IEC 60093			10	O ¹⁶			Specific res [Ωcm]
Shear viscosity			Shear visco					
Packaging			Packaging					
Shelf life**			Shelf life**					

OPPANOL® N		50 SF							
		50	80	100	150				
Stabilizer [ppm] (average BHT concentration)		no							
		500	500	500	500				
Specification									
Staudinger Index Jo* [cm³/g]		128-150	178-236	241-294	416-479				
Typical characteristics									
Average molecular weight M _v (viscosity average)		425,000	800,000	1,110,000	2,600,000				
Average molecular weight M _w (weight average) Expressed in equivalents of PS		565,000	1,050,000	1,550,000	3,050,000				
Average molecular weight distribution M _w /M _n		2.4	2.4	2.9	2.9				
Volatiles, 150 °C, 4h, 150 mbar [%]		< 0.3	< 0.3	< 0.3	< 0.3				
Fluorine [ppm]		< 2							
Chlorine [ppm]		< 90							
Ash content [ppm]		< 200							
Typical properties									
Appearance		transparent to turbid							
Color		white to pale amber							
Glass transition temperature [°C]		-64							
Specific heat [kJ/(kg*K)]		2.0							
Heat conductivity [W/(m*K)]		0.19							
Relative Permittivity (100 Hz, 1 mm, RT)	IEC 60250	2.7							
Specific resistance [Ωcm]	IEC 60093	10 ¹⁶							
Shear viscosity		Details upon request							
Packaging		20 kg bag: N 50 easy peel; N 80-150 easy peel/dispersible							
Shelf life**		3 years from date of production							

The Staudinger Index Jo represents the viscosity of OPPANOL® solutions in Isooctane at 20 °C
Dry storing conditions, ambient temperatures, no direct sunlight