

Shark Solutions bvba Fabrieksstraat 145 B-3900 PELT Tel: +45 3033 0665

partner@shark-solutions.com www.shark-solutions.com BE 0829770266

## **TECHNICAL DATA SHEET** (TDS) SharkDispersionWX2™

SUBJECT	CONTENT	COMMENT
PVB polymer	Recycled plasticized PVB from safety glass applications – SharkFlakesC1™ & SharkFlakesC2™	Hydroxyl content ~ 12 % Butyral content ~ 64 % Nonvolatile softeners ~ 22 % Calculated molecular weight X 104: 70 - 300.000 meaning average values approx. 200.000
Plasticizer type and content	Analysis made of SharkFlakesC1 raw-material for the dispersion. Dissolution in organic solvent and analyzing by gas-chromatography with mass selective detection.	Parameter Results in mg/kg  Adipates  Di-n-Hexyladipate Not detected  Di(butoxyethyl)adipate 1.800  Phthalates Not detected  Others  Triethyleneglycol- bis(2-ethylhexanoate) (TEG-EH)
Surfactant	Potassium Oleate	
рН	9,0 - 10,0	
Brookfield Viscosity, RVT No. 2 spindle, 50 rpm @ 20°C	Viscosity 80-250 mPa·s	PVB dispersion is a colloid and a Non- Newtonian liquid.
Total Solids % w/w	45-47	
Particle Charge	Anionic	Adding cationic components will make the dispersion unstable.

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Conductivity	The dispersions are slightly antistatic.	Further antistatic agents can be added upon request.
Density	1,03 kg/ltr.	1,0 – 1,1 kg/ltr.
	Input material source:	Particle size d(0,5) (Microtrac DLS equipment), dry film appearance:
	Post-consumer	< 0,300 µm, clear hazy
Delivery form	Milky white to greyish Dispersion	Filtered 200 Microns
Minimum Film Formation Temperature (MFFT)	0°C	Tg (plasticized PVB): - 10°C (Tg (non-plasticized PVB): 62 - 78°C)
Biocides	Acticide MBS™ Promex Clear™	To make the dispersion antibacterial and ensure increased shelf life. BIT <375 ppm; MIT < 15 ppm MIT compliant
Application areas	Paints/Coatings	Performance enhancing co-binder with improved formulation latitude and resistance to water after drying. Stirring before use is mandatory.
UV resistance		Very little UV absorption, but inert to UV light. The binder will not be degraded by UV radiation.
Storage stability	To be kept from freezing conditions	Passes minimum one freeze-thaw cycle @ -20°C in 72 hours. Shelf life in unopened containers is minimum one year. Stirring before use is mandatory.

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