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TECHNICAL DATA SHEET (TDS) SharkDispersionSX™

Biocide free

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 Adipates Di-n-Hexyladipate Di(butoxyethyl)adipate Phthalates Others Triethyleneglycol- bis(2-ethylhexanoate) (TEG-EH)	Not detected 1.800 Not detected 230.000
Surfactant	Potassium Oleate		
рН	9,0 - 10,0		
Brookfield Viscosity, RVT No. 2 spindle, 50 rpm @ 20°C	Viscosity < 600 mPa⋅s	PVB dispersion is a colloid and a Non- Newtonian liquid.	
Total Solids % w/w	45,0 - 47,0		
Particle Charge	Anionic	Adding cationic components will make the dispersion unstable.	
Conductivity	The dispersions are slightly antistatic.	Further antistatic agents can be added upon request.	



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Density	1,03 kg/ltr.	1,0 - 1,1 kg/ltr.	
Product name: SharkDispersionSX™	Input material source: Post-consumer	Particle size d(0,5) (Microtrac DLS equipment), dry film appearance: < 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	No biocides added		
Application areas	Multiple	Binder, Carpets, Artificial Grass, substitution of SBR.	
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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