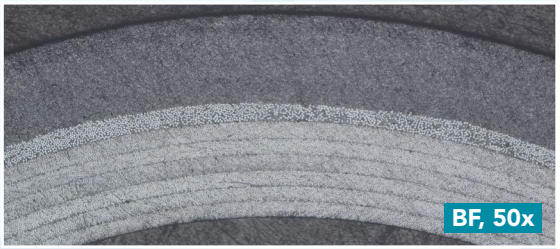
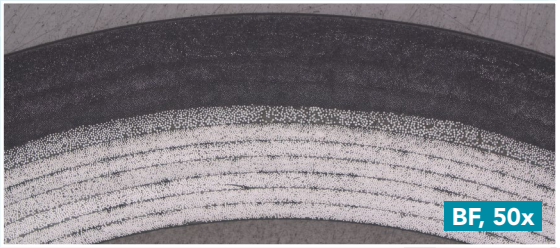
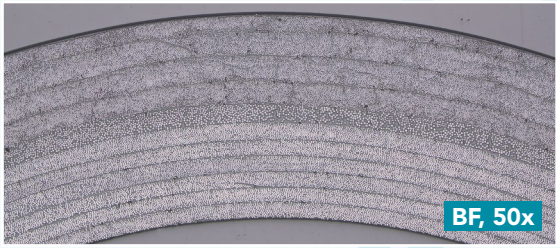
Aka-Brief #9 Carbon Fibres Composites

AKASEL
THE SMARTER ALTERNATIVE

1	Rhaco Grit P500*	Water	300 rpm	20 N	Until plane	
2	Largan 9	DiaUltra 9 µm	150 rpm	30 N	4:00 min	
3	Daran	DiaUltra 3 µm	150 rpm	20 N	2:30 min	
4	Chemal**	Alumina 50 nm Neutral	150 rpm	15 N	2:00 - 3:00 min	

Times are stated for a 300 mm preparation system and forces for an individual 40 mm dia. sample.

On a 250 mm system the times should be increased by 30%, on a 200 mm system by 100%.

With larger samples the force should be increased, with smaller samples decreased.

The rotational speed of the head (sample holder or sample mover plate) used is 150 rpm.

Time and force may vary depending on the equipment.

* For large samples replace Rhaco Grit P500 by Rhaco Grit P320.

** Prior to oxide polishing the polishing cloth should be wetted with water until the holder touches the polishing cloth. For the last 10 seconds of the oxide polishing step, the polishing cloth should be flushed with water to clean both sample(s) and polishing cloth.

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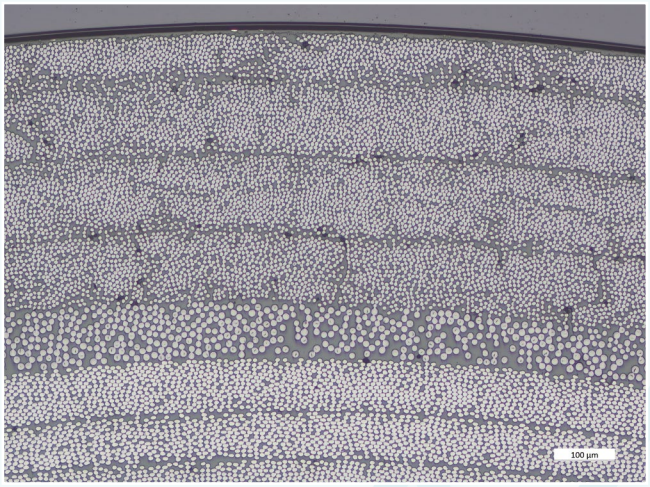
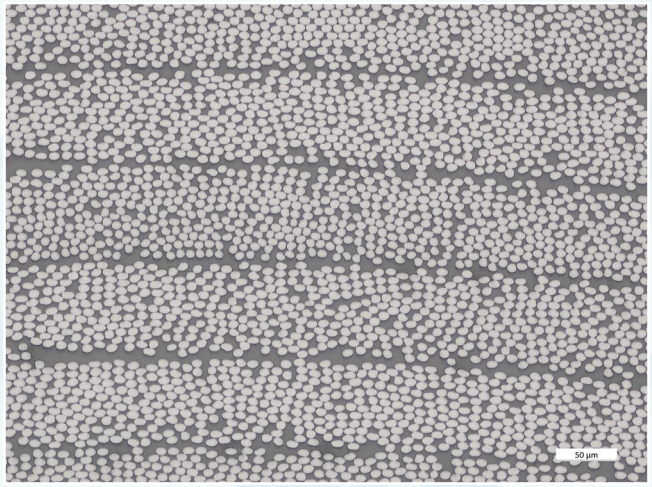
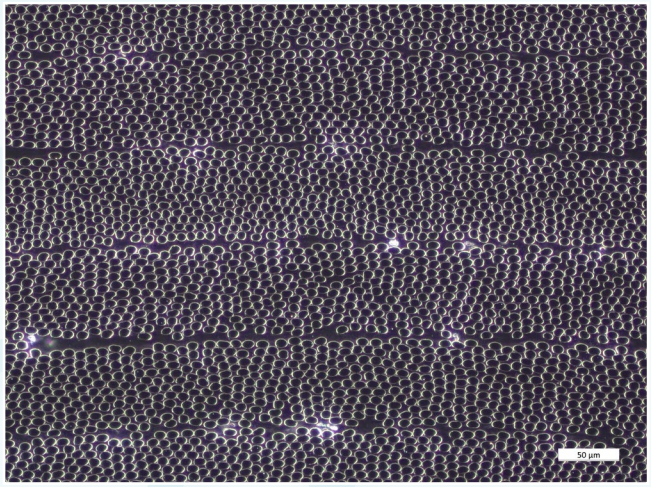
FINAL RESULT



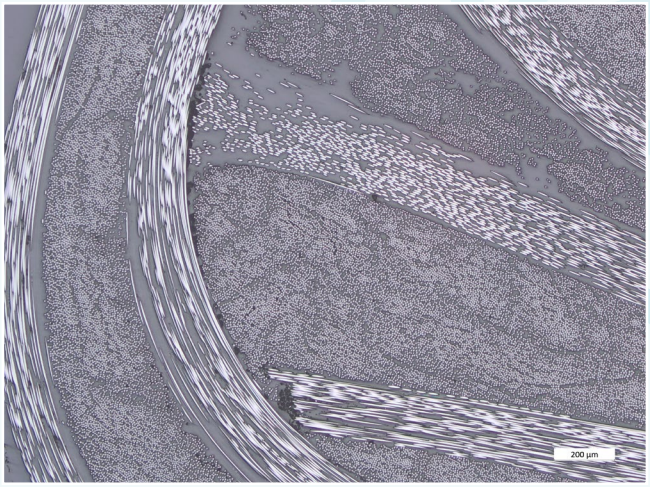
Sample 1, BF, 100x



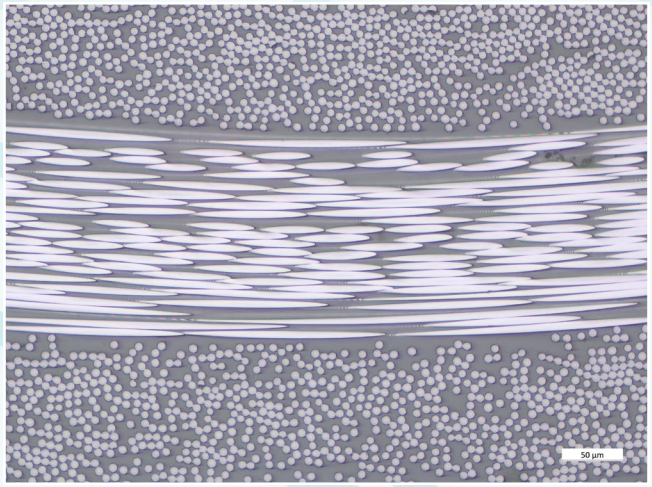
Sample 1, BF, 200x



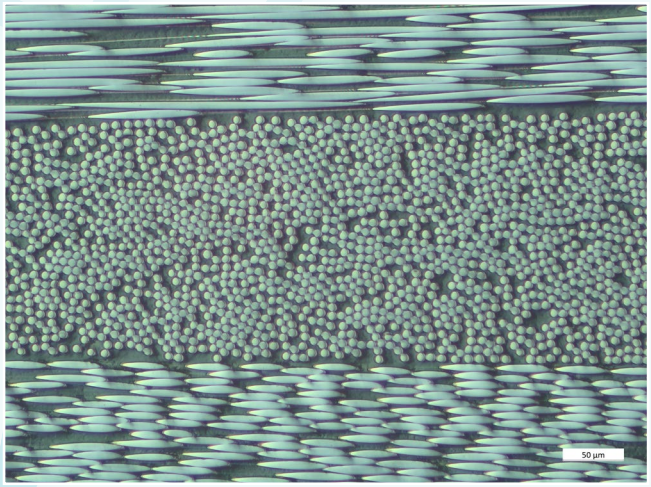
Sample 1, DF, 200x



Sample 2, BF, 50x



Sample 2, BF, 200x



Sample 2, DIC, 200x

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