

Material S C/PEKK Solvay C/PEKK APC/AS4D 12K 145/34 12", produced: 03-jan-2020, SAP batch: 213186026, lot: 8300066
For specimen lay-up and cut: see 'Notes on friction tests'

Specimen	Type	p [kPa]	V [mm/min]	T [deg C]	Wait t [min]	RA [y/n]	Notes
TP020	CP1	15	25	385	3	n	Small gap in ply lengthways.
TP021	CP1	15	25	385	3	n	
TP022	CP1	15	25	385	3	n	
TP026	P5	15	5	385	3	n	Force kick from undoing lower clamps as high as steady-state force.
TP028	P5	15	5	385	3	n	
TP029	P5	15	5	385	3	n	
TP030	P9	15	25	370	3	n	Foil not exactly same size. Ply slightly misaligned with foils while lowered into friction tester.
TP031	P9	15	25	370	3	n	
TP032	P9	15	25	370	3	n	
TP033	P13	5	25	385	3	n	Adjusted ply displacement, no additional force applied. Had to change alignment of foils.
TP034	P13	5	25	385	3	n	
TP035	P13	5	25	385	3	n	
TP038	P6	15	125	385	3	n	
TP039	P6	15	125	385	3	n	
TP040	P6	15	125	385	3	n	
TP041	P14	45	25	385	3	n	
TP042	P14	45	25	385	3	n	
TP043	P14	45	25	385	3	n	
TP044	P10	15	25	400	3	n	Slight imperfection in side of ply. Foil knocked while lowering. Re-adjusted.
TP045	P10	15	25	400	3	n	
TP046	P10	15	25	400	3	n	
TP062	CP2	15	25	385	3	y	Visible difference in ply interface.
TP063	CP2	15	25	385	3	y	
TP064	CP2	15	25	385	3	y	
TP065	P4	15	125	385	3	y	
TP066	P4	15	125	385	3	y	
TP067	P4	15	125	385	3	y	
TP068	P3	15	5	385	3	y	Steady-state steadily increased force. Metal foil alignment had to be readjusted. No upward trend of steady-state. Slight imperfection in metal foil.
TP069	P3	15	5	385	3	y	
TP070	P3	15	5	385	3	y	
TP074	P11	5	25	385	3	y	
TP075	P11	5	25	385	3	y	
TP076	P11	5	25	385	3	y	
TP082	P7	15	25	370	3	y	
TP083	P7	15	25	370	3	y	
TP084	P7	15	25	370	3	y	
TP085	P12	45	25	385	3	y	Foil had to be readjusted.
TP086	P12	45	25	385	3	y	
TP087	P12	45	25	385	3	y	
TP088	P8	15	25	400	3	y	
TP089	P8	15	25	400	3	y	
TP090	P8	15	25	400	3	y	

Heating time experiments

Specimen	Type	p [kPa]	V [mm/min]	T [deg C]	Wait t [min]	RA [y/n]	Notes
9-20	ply-ply	15	25	385	5	n	Specimen configuration: additional prepreg tape of 120x50mm2 between metal foil and central ply at both interfaces, which are clamped together with the metal foils in the bottom clamp.
9-21	ply-ply	15	25	385	5	n	
9-23	ply-ply	15	25	385	10	n	
9-24	ply-ply	15	25	385	10	n	Too high force (reaching force limit), thus stopped. Mass of upper clamp used to check proper working of force cell after measurements; seems still to be correct. Metal foils seem to be tensioned during the test.
9-25	tool-ply	15	25	385	10	n	
9-26	tool-ply	15	25	385	5	n	
9-27	tool-ply	15	25	385	2	n	