



Outer Shell Fuel Contamination Flame Test

# Safety Components Results



Outer Shell Fabric and Finish	Condition	Direction	Indices of Penetration, Repellency, Absorption			Flame Resistance	
			$I_P$	$I_R$	$I_A$	Average Afterflame (s)	Average Char Length (mm)
ARMOR AP™	Fuel Contamination	Warp	32,9	0	66,2	15,7	5,3
		Fill	34	0	66,6	16,4	4,7
	Fuel Contamination followed by Cleaning	Warp	28,1	1,3	68,5	1,1	12,7
		Fill	31	0	68,8	1,9	13,7
	As Received	Warp	N/A	N/A	N/A	0	14
		Fill	N/A	N/A	N/A	0	15
After 5 Launderings	Warp	N/A	N/A	N/A	0	12	
	Fill	N/A	N/A	N/A	0	14	
PBI MAX™ 6.0 or PBI MAX™ 6.0 LP	Fuel Contamination	Warp	27,6	3,7	67,6	31,1	11
		Fill	30,5	1,7	64,6	24,9	11
	Fuel Contamination followed by Cleaning	Warp	26,2	4,8	65,2	0,5	17,3
		Fill	25,8	5,3	65	3,5	13,7
	As Received	Warp	N/A	N/A	N/A	0	18
		Fill	N/A	N/A	N/A	0	17
After 5 Launderings	Warp	N/A	N/A	N/A	0	15	
	Fill	N/A	N/A	N/A	0	17	
PBI MAX™ 7.0	Fuel Contamination	Warp	30,7	4,6	61,7	25,8	14
		Fill	30,7	6	62,3	20,1	12
	Fuel Contamination followed by Cleaning	Warp	23,9	10,3	63,5	0	12,7
		Fill	23,6	12,6	60,2	0	19
	As Received	Warp	N/A	N/A	N/A	0	18
		Fill	N/A	N/A	N/A	0	19
After 5 Launderings	Warp	N/A	N/A	N/A	0	18	
	Fill	N/A	N/A	N/A	0	18	



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# Tencate Results



Outer Shell Fabric and Finish	Condition	Direction	Indices of Penetration, Repellency, Absorption			Flame Resistance	
			$I_P$	$I_R$	$I_A$	Average Afterflame (s)	Average Char Length (mm)
AGILITY®	Fuel Contamination	Warp	26,6	1,3	67,9	17,5	0
		Fill	19,4	0,1	65,7	27,8	0
	Fuel Contamination followed by Cleaning	Warp	35,0	0,5	68,2	0,2	0
		Fill	30,7	1,1	70,8	1,2	0
	As Received	Warp	N/A	N/A	N/A	0,0	5
		Fill	N/A	N/A	N/A	0,0	4
	After 5 Launderings	Warp	N/A	N/A	N/A	0,0	4
		Fill	N/A	N/A	N/A	0,0	4
BRIGADE® 750	Fuel Contamination	Warp	29,0	1,1	73,2	29,9	128
		Fill	28,6	0,2	81,9	21,7	67
	Fuel Contamination followed by Cleaning	Warp	28,6	-4,1	72,5	17,4	48
		Fill	29,6	-4,0	69,9	8,7	47
	As Received	Warp	N/A	N/A	N/A	0,0	68
		Fill	N/A	N/A	N/A	0,0	81
	After 5 Launderings	Warp	N/A	N/A	N/A	0,3	59
		Fill	N/A	N/A	N/A	0,6	60
FLEX7®	Fuel Contamination	Warp	27,6	1,5	67,7	26,5	2
		Fill	31,2	0,5	65,2	25,3	2
	Fuel Contamination followed by Cleaning	Warp	32,4	0,5	65,7	0,0	0
		Fill	27,1	0,6	68,5	0,0	7
	As Received	Warp	N/A	N/A	N/A	0,0	13
		Fill	N/A	N/A	N/A	0,0	14
	After 5 Launderings	Warp	N/A	N/A	N/A	0,0	12
		Fill	N/A	N/A	N/A	0,0	12



PBI® PEAK5®	Fuel Contamination	Warp	30,8	36,2	69,6	24,1	16
		Fill	32,5	38,7	77,3	40,3	8
	Fuel Contamination followed by Cleaning	Warp	24,1	10,8	60,8	0,0	9
		Fill	25,1	9,4	63,6	0,0	13
	As Received	Warp	N/A	N/A	N/A	0,0	23
		Fill	N/A	N/A	N/A	0,0	25
	After 5 Launderings	Warp	N/A	N/A	N/A	0,0	20
		Fill	N/A	N/A	N/A	0,0	21
PIONEER™	Fuel Contamination	Warp	34,3	0,1	64,9	27,5	15
		Fill	35,3	0,3	63,6	40,9	11
	Fuel Contamination followed by Cleaning	Warp	32,8	1	63,9	3,7	14
		Fill	31,1	1,7	62,1	1,3	12
	As Received	Warp	N/A	N/A	N/A	0,0	19
		Fill	N/A	N/A	N/A	0,0	19
	After 5 Launderings	Warp	N/A	N/A	N/A	0,0	16
		Fill	N/A	N/A	N/A	0,0	19