Flame Retardant Solutions - Product Properties
Halogenated

	GRADE	POLYMER	COLOR	DENSITY (1)	STRAIN AT BREAK (2.a)	STRESS AT BREAK (3.a)	TENSILE MODULUS (4.a)	UL94 (5) (mm)				HW (6) (mm)				HAI (6) (mm)				GWFI (7) (mm)				GWIT (8) (mm)				CTI (9)	RTI Elec.(10) (mm)				RTI Imp. (10) (mm)				RTI Str.(10) (mm)				BALL PRESSURE TEST (11)	EIS CLASS (mm) (12)	FEATURES
	Units			g/cm³	%	MPa	MPa					Class				Class				°C				°C				V	°C				°C				°C				°C	°C (Class)	
								0.4	0.75	1.5	3	0.4	0.75	1.5	3	0.4	0.75	1.5	3	0.4	0.75	1.5	3	0.4	0.75	1.5	3		0.4	0.75	1.5	3	0.4	0.75	1.5	3	0.4	0.75	1.5	3			
HALOGENATED																																										
CRASTIN®	S650FR	PBT-FR(17)	NC010	1.46	4.6 YS	65 YS	3000		V-0	V-0	V-0		4	3	2		0	0	0				960				625	225		130	130	130		130	130	130		130	130	130	190	130(B)	suitable for lasermarking.
CRASTIN®	SK642FR	PBT-GF15FR(17)	NC010 BK851	1.58	3.4	100	7200		V-0	V-0 5VA	V-0		3	2	1		1	1	1				960 960				875	225 200		140	140	140		130	130	130		140	140	140		155(F)	suitable for lasermarking.
CRASTIN®	SK643FR	PBT-GF20 FR(17)	NC010	1.63	3.0 2.8	113 110	8500 8300		V-0	V-0	V-0		3	2	1		3	0	0				960					250		140	140	140		130	130	130		140	140	140		155(F)	(f2). suitable for lasermarking.
CRASTIN®	SK645FR	PBT-GF30FR(17)	NC010 BK851	1.71 1.69	2.4 2.6	125 114	11200 10330		V-0	V-0	V-0		3	2	1		0	0	0				960					250		140	140	140		125	125	130		140	140	140	210	130(B) 155(F)	(f2). improved CTI. suitable for lasermarking.
CRASTIN®	SK692FR	PBT-GF15FR(17)	NC010 BK507	1.55 1.53	2.7	115 110	7000 7100		V-0	V-0	V-0		3	2	2		0	0	0				960				725 775	175 250		130	130	130		130	130	130		130	130	130			high flow. suitable for lasermarking.
CRASTIN®	SK695FR	PBT-GF30FR(17)	NC010 BK507	1.67	2.2	154 148	11600 11900		V-0	V-0	V-0		3	3	2		0	0	0				960				725 800	200		120	120	130		120	120	130		120	120	130			high flow. suitable for lasermarking.
CRASTIN®	LW9020FR	PBT+ASA-GF20FR(17)	BK851	1.50	2.0	100	7800			V-0	V-0			2	1			3	3			960 *1 mm*						250		140	140	140		115	115	120		130	130	130			low warpage. suitable for lasermarking.
CRASTIN®	LW9030FR	PBT+ASA-GF30FR(17)	NC010 BK851	1.57 1.55	1.8 1.7	125 115	10500 10200		V-0	V-0	5VA *2 mm*		3	2	1		3	3	3		960	960	960		750	750	750	400 300		140	140	140		125	125	130		130	130	140		180	low warpage. suitable for lasermarking.
CRASTIN®	ST830FRUV	PBT-I-FR(17)	NC010	1.37	9.0 YS	41 YS	2200		V-0 *0.85 mm*	V-0	V-0		4 *0.85 mm*	3	2		0 *0.85 mm*	0	0				960	960			700	600		130 *0.85 mm*	130	130		130 *0.85 mm*	130	130		130	130	130			(f2). highly impact modified. suitable for lasermarking.
CRASTIN®	T841FR1	PBT-GF10 FR(17)	NC010 BK851	1.54 1.53	4.7 4.5	70 68	3900 4000		V-0	V-0	V-0			2	1			0	0				960				875	250 275		130	130	130		115	130	130		115	130	130	170		(r4). impact modified. high flow. suitable for lasermarking. CQC certificate. light gray RAL7035 (GY811). white close RAL9001/1013 (NC010).
CRASTIN®	T843FR	PBT-GF20FR(17)	NC010 BK851	1.60 1.59	4.2 4.0	90 87	5800			V-0	V-0			2	1			0	0	960	960	960	960		675 *1 mm*	725 *2 mm*	875	275 225			130	130			120	130			130	130	180	155(F)	(+). impact modified. high flow. suitable for lasermarking.
HYTREL®	HTR8068	TPC-ET FR(17)		1.43	>300	13	140			V-0	V-0			3	1			0	0												50	50			50	50			50	50			thermoplastic elastomer (TPE). elastomer-ether-ester.
RYNITE®	FR335	PET-(GF+MD)35FR(30+17)	NC010 BK507	1.67	1.9 1.7	130 110	12300 11600		V-0	V-0 5VA	V-0 5VA			2	1	0		0	0	0	960	960	960		825	900	900	300		155	155	155		150	150	150		150	150	150			
RYNITE®	FR515	PET-GF15FR(17)	NC010 BK507	1.55	2.6 2.2	107 100	6800 6135		V-0 *0.86 mm*	5VA	V-0		0 *0.86 mm*	0	0		0 *0.86 mm*	0	1				960 960				850 875	200		140 *0.86 mm*	140	140		140 *0.86 mm*	140	140		140 *0.86 mm*	140	140	240	130(B) 155(F) 180(H)	(f1). high long term heat resistance. suitable for lasermarking.
RYNITE®	FR530	PET-GF30FR(17)	NC010 BK507	1.68	2.0 1.9	135 130	11500 11300	V-0 *0.35 mm*	V-0	V-0 5VA	V-0 5VA	3 *0.35 mm*	2	0	0	1 *0.35 mm*	1	1	1	960	960	960		800	800	985	200	155 *0.35 mm*	155	155	155	155 *0.35 mm*	155 *0.75 mm*	155	155	155 *0.35 mm*	155 *0.75 mm*	155	155	245	155(F) 180(H) 200(N)	(l)(+)(f1). very high long term heat resistance. suitable for lasermarking.
RYNITE®	FR531	PET-(GF+MD)45FR(17)	NC010	1.83	1.6	129	12600		V-0	V-0	V-0		0	0	0		0	0	3	960	960	960		900	900	900	325		155	155	155		155	155	155		155	155	155	235	155(F) 180(H)	improved CTI. suitable for lasermarking.
RYNITE®	FR543	PET-GF43FR(17)	NC010 BK507	1.79	1.80 1.50	170 160	17000 15600		V-0 *0.81 mm*	V-0 5VA	V-0 5VA		0 *0.81 mm*	0	0		1 *0.81 mm*	1	1				960				960	225		155 *0.81 mm*	155	155		155 *0.81 mm*	155	155		155 *0.81 mm*	155	155	250	130(B) 155(F) 180(H)	high stiffness. suitable for lasermarking.
ZYTEL®	FR50	PA66-GF25FR(17)	NC010 BK505	1.60	2.6 / - 2.1 / -	177 / - 158 / -	10200 10640	V-0 *0.35 mm*	V-0	V-0 5VA	V-0 5VA		0	0	0		0	0	0	960	960	960		900	900	900	285		130	130	130		105	115	115		105	115	120		130(B) 155(F)	(+)(f1). high flow. suitable for lasermarking.
ZYTEL®	FR70G25V0	PA66-GF25FR(17)	NC010 BK369	1.49 1.53	2.0 / 2.6 2.4 / 3.4	130 / 110	9000 / 7500 9000 / 6500		V-0 *0.5 & 0.83 mm*	V-0 5VA	V-0	3 *0.5 mm*	3 *0.83 mm*	3	3	0 *0.5 mm*	0 *0.83 mm*	0	0	960 *0.83 mm*	960	960		850 *0.83 mm*	850	850	350		120 *0.83 mm*	130	130		120 *0.83 mm*	120	120		130 *0.83 mm*	130	130	245	130(B) 155(F)	impact modified. suitable for lasermarking. CQC certified.
ZYTEL®	FR72G25V0	PA666-GF25FR(17)	NC010 BK345	1.49	2.5 / 3.5 2.5 / 4.3	135 / 100 146 / 95	9200 / 6500 8900 / 5900		V-0 *0.5 & 0.8 mm*	V-0 5VA	V-0	0 *0.5 mm*	0 *0.83 mm*	0	0	0 *0.5 mm*	0 *0.83 mm*	0	0			960 *1 mm*				775 *1 mm*		300		140 *0.83 mm*	140	140		120 *0.83 mm*	120	120		140 *0.83 mm*	140	140	235	130(B) 155(F)	(f1). high flow. impact modified. suitable for lasermarking. gray RAL7035 (GY372). lasermarking gray RAL7012 (GY076E).
ZYTEL®	FR70M30V0	PA66-MD30FR(17)	NC010 BK010	1.62	2.0 / 6.0 2.0 / 3.5	73 / 50 75 / 50	6500 / 3500 6200 / 4000		V2 (0.75) V-0 (1.00) V-0 5VA (1.50)		V-0		3	2	0		0	0	0	960	960 *1& 1.5 mm*	960		800	800	800	325		105 *0.75 & 1 mm*	120	120		95 *0.75 & 1 mm*	105	115		105 *0.75 & 1 mm*	115	115	235		(f1). mineral filled. low warpage. suitable for lasermarking.
ZYTEL®	FR73200TC	PA6-(MD+GF)65FR(17)	WT001	1.80	1.0 / -	90 / -	12500 / -		V-0	V-0	V-0		0	0	0		0	0	0	960	960	960		775	800	825																(f1). thermally conductive. electrically insulated. suitable for lasermarking.
ZYTEL® HTN	HTN FR51G35L	PA6T/XT-GF35FR(17)	NC010 BK337	1.67	1.5 / 1.1 1.6 / 1.3	170 / 130 174 / 162	14000 / 14000 14000 / 14500		V-0 *0.81 mm*	V-0	V-0		0 *0.81 mm*	0	0		2 *0.81 mm*	2	2	960				930			450		150 *0.81 mm*	150	150		120 *0.81 mm*	125	130		130 *0.81 mm*	140	150	280	130(B) 155(F) 180(H)	(+). EN45545: R23-HL1. suitable for lasermarking. light gray RAL7035 (GY016).
ZYTEL® HTN	HTN FR52G30BL	PA6T/66-GF30FR(16+72)	NC010 BK337	1.62	2.0 / 2.0 2.0 / -	170 / 150 160 / -	12000 / 11000 11800 / -	V-1	V-0	V-0 5VA	V-0	0	0	0	0	2	0	0	0	960	960	960		925	925	960	525	65	140	140	140	65	120	120	120	65	120	120	130	290	130(B) 155(F)	(r3)(r10)(f1). reflow optimized. suitable for lasermarking.
ZYTEL® HTN	HTN FR52G45BL	PA6T/66-GF45FR(16+72)	BK337	1.76	1.3 / 1.5	175 / 155	17000 / 17000		V-0	V-0	V-0		0	0	0		0	0	0			960 *1 mm*				900 *1 mm*		500		140	140	140		120	120	120		120	120	130	280		EN45545: R23-HL1. reflow optimized. suitable for lasermarking.

[Footnote Key]
(1) ISO 1183
(2) ISO 527-1/-2
(3) ISO 527-1/-2
(4) ISO 527-1/-2
(5) IEC 60695-11-10
(6) UL746A
(7) IEC 60695-2-12
(8) IEC 60695-2-13
(9) IEC 60112
(10) UL-746B
(11) IEC 60695-10-2
(12) UL-1446
(a)Dry/ Cond

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