

Flame-retardant compounds

A broad portfolio formulated for your unique needs - Europe



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LYB offers a wide range of flame-retardant compounds based on different base resins, delivering reliable fire safety performance across diverse applications. While available in black, both virgin and sustainable grades offer unlimited color options, with sustainable grades optimized for lighter color palettes.

Grade name	Product Description & Special Attributes	Specific Gravity (g/cm3)	VN / MVR	Tensile Modulus (MPa)	Tensile Strength at break (MPa)	Tensile strain at break (%)	Tensile strength at Yield (MPa)	Tensile strain at Yield (%)	Charpy impact strength	Notched Charpy (kJ/m2)	CTI (Volt)	GWFI (°C)			GWIT (°C)			Flammability		
Polyamide 6			VN									0.75mm	1.5mm	3mm	0.75mm	1.5mm	3mm	0.4mm	0.75mm	1.5mm
Schulamid 6 NV 12 FR	Low viscosity and halogen-free	1.15	130	3400	-	-	70	4	NB	4	600	960	960	960	700	700	700	-	V-0	V-0
Schulamid 6 MV14 FR	Medium viscosity and halogen-free	1.17	145	3400	-	-	80	3	NB	8	600	960	960	960	700	700	700	-	V-0	V-0
Schulamid 6 MV 14 GW FR	Medium viscosity, high GWIT and halogen-free	1.18	145	3700	-	-	75	4.5	55	3.5	600	960	960	960	775	775	775	V-0	V-0	V-0
Schulamid 6 GF15 GW FR2	15% Glass fiber, high GWIT, halogen free	1.36	140	7900	92	2.5	-	-	30	6	600	960	960	960	775	775	775	V-0	V-0	V-0
Schulamid 6 MV GW FR	Medium viscosity, high GWIT and halogen-free	1.19	145	3500	67	8	80	4.5	60	3.3	600	960	960	960	800	800	800	V-0	V-0	V-0
Schulamid 6 MV14 FR4 K1681	Medium viscosity, high GWIT	1.26	130	3800	-	-	70	4	55	4	300	960	960	960	825	825	825	V-2	V-2	V-2
Schulamid 6 GF15 FR4 K1681	15% GF and high GWIT	1.38	145	7100	117	3.5	-	-	60	9	275	960	960	960	900	900	900	V-2	V-2	V-2
Schulamid 6 GF15 4DD	15% GF and halogen-free	1.38	145	7000	95	3.2	-	-	50	7.5	600	960	960	960	750	750	750	-	V-0	V-0
Schulamid 6 GF30 4DD	30% GF and halogen-free	1.43	145	12000	140	3	-	-	70	12	475	960	960	960	750	750	750	-	V-0	V-0
Schulamid 6 GF30 H2 FR2	30% GF and halogen-free	1.43	135	12000	140	2.6	-	-	50	7.5	600	960	960	960	775	775	-	-	V-0	V-0
Schulamid GBF3015 FR4	15% GF + 15% GB	1.6	145	8800	130	2.5	-	-	50	6	200	960	960	960	800	800	800	-	V-0 (1mm)	V-0
Schulamid 6 HV2 FR	High viscosity and halogen-free for extrusion molding	1.14	195	3100	-	-	80	4	NB	7	600	960	960	960	700	700	700	-	V-2	V-2
Polyamide 66			VN																	
Schulamid 66 MV5 FR	Medium viscosity and halogen-free	1.14	152	3600	-	-	80	4.9	70	5	600	960	960	960	775	775	775	V-0	V-0	V-0
Schulamid 66 GBF3020 FR4	20% GF + 10% GB	1.59	150	8700	140	2.5	-	-	42	5.5	175	960	960	960	-	750	750	-	-	V-0
Schulamid 66 GF25 FR5A	25% GF and antimony-free	1.59	170	10000	150	2.1	-	-	52	9	400	960	960	960	900	900	900	V-0 (0,5mm)	V-0	V-0
Schulamid 66 GF30 FR2	30% GF and halogen-free	1.43	145	11000	155	2.5	-	-	65	11	500	960	960	960	750	750	750	-	V-0	V-0
Polyester PBT, PET			260°C/5Kg																	
Schuladur A MV 14 SHI FR1 (f1)	Medium viscosity and high impact	1.37	5	2200	-	-	44	15	NB	20	600	960	960	960	650	650	650	-	V-0	V-0
Schuladur A GF15 HF FR1	15% GF with high flow	1.52	50	6800	110	3	-	-	34	4.5	225	960	960	960	-	675	675	-	V-0	V-0
Schuladur A GF30 HF2 FR1	30% GF with high flow	1.62	40	12000	150	2.5	-	-	60	10	225	960	960	960	-	750	750	-	V-0	V-0
Schuladur A GF30 FR2	30% GF and halogen-free	1.55	30	10800	115	2	-	-	42	8	475	960	960	960	-	750	750	V-0	V-0	V-0
Schuladur A1 GF30 HF FR1	30% GF PBT/PET with high flow	1.68	54	12000	148	2	-	-	46	7	225	960	960	960	-	675	675	-	V-0	V-0
Schuladur A3 GF30 FR1	30% GF PBT/ASA with low warpage	1.58	27	11000	115	1.5	-	-	50	6.5	250	960	960	960	-	675	675	-	V-0	V-0
Schuladur A3 GF30 FR2	30% GF PBT/ASA with low warpage and halogen-free	1.5	34	10500	95	1.8	-	-	38	8	600	960	960	960	-	800	800	-	V-0	V-0
Schuladur E GF30 FR5	30% GF and antimony-free	2	6 280°C/2,16Kg	12300	135	1.7	-	-	30	10	300	960	960	960	930	930	930	-	V-0	V-0
Polyketone			240°C/5 kg																	
Schulaketon HV 4DE	High viscosity, halogen-free for extrusion molding	1.25	5	1700	-	-	50	18	NB	7	600	960	960	960	775	775	775	-	V-0	V-0
Schulaketon MV 4DE	Medium viscosity and halogen-free	1.24	30	2050	-	-	50	35	NB	10	600	960	960	960	775	775	775	-	V-0	V-0
Schulaketon MV 4DE BLK968069	Medium viscosity, laser weldable and halogen-free	1.24	30	2050	-	-	50	35	NB	10	600	960	960	960	775	775	775	-	V-0	V-0
Schulaketon GF15 4DE	15% GF and halogen-free	1.35	20	4900	95	4	-	-	70	13	600	960	960	960	825	850	825	V-0	V-0	V-0
Schulaketon GF30 4DE	30% GF and halogen-free	1.47	7	8500	130	4.5	-	-	68	13	600	960	960	960	825	850	825	V-0	V-0	V-0
Schulaketon GF30 SF 4DE	30% GF with high flow and halogen-free	1.47	20	8000	125	4	-	-	80	13	600	960	960	960	825	850	825	-	V-0	V-0

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Polypropylene		230°C/2.16 kg										0.75mm	1.5mm	3mm	0.75mm	1.5mm	3mm	0.4mm	0.75mm	1.5mm
Polyflam RPP 500D	PP Homo	0.94	10	1400	-	-	28	10	NB	5	600	960	960	960	750	725	725	-	V-2	V-2
Polyflam RIPP 510D	PP Copo	0.94	5.5	1100	-	-	23	12	NB	20	600	960	960	960	700	675	675	-	V-2	V-2
Polyflam RPP 2000	PP Homo and halogen-free,	0.91	8	1800	-	-	38	8	NB	7	600	960	960	960	875	850	800	-	V-2	V-2
Polyflam RPP 2000 S	PP Homo, halogen-free and UV stabilized	0.91	7	1100	-	-	32	11	NB	5	600	960	960	960	875	850	800	-	V-2	V-2
Polyflam RPP 2000 E CS1	PP Homo, halogen-free and UV stabilized for extrusion molding	0.91	2	1900	-	-	38	8	NB	9	600	960	960	960	875	850	800	-	V-2	V-2
Polyflam RIPP 2000 S	PP Copo, halogen-free and UV stabilized	0.91	7	1100	-	-	32	11	NB	5	600	960	960	960	875	850	800	-	V-2	V-2
Polyflam RIPP 2000 E CS1	PP Copo and halogen-free for extrusion molding	0.91	2.5	1200	-	-	27	10	NB	20	600	960	960	960	875	850	800	-	V-2	V-2
Polyflam RPP 374 ND CS1	20% Talc, PP Homo	1.35	19	3000	-	-	21	2.5	20	2.5	600	960	960	960	-	700	700	-	V-0	V-0
Polyflam RPP 374 ND CS1 5V	20% Talc, PP Homo with 5V rating	1.5	5	3700	-	-	27	2	12	2	600	960	960	960	-	750	750	-	V-0	V-0 5VA (1,8mm)
Polyflam RIPP 374 ND CS1	20% Talc, PP Copo	1.36	9	2300	-	-	17	1.7	60	6	600	960	960	960	-	650	650	-	V-0	V-0
Polyflam RIPP 374 ND CS1 5V	20% Talc, PP Copo with 5V rating	1.37	9	2400	15	9	20	2	60	10	600	960	960	960	850	800	800	V-0	V-0	V-0 5VA (2,0mm)
Polyflam RPP 60335 CS1 5V	20% Talc, PP Homo with 5V rating	1.41	1.5	2300	-	-	24	2.5	30	-	600	960	960	960	800	800	800	V-0	V-0	V-0 5VA (1,8mm)
Polyflam RIPP 3125 CS1	25% Talc, PP Copo	1.4	9	2400	-	-	17	1.7	33	8	600	960	960	960	-	675	675	-	V-0	V-0
Polyflam RIPP 3625 CS1	25% Mineral, PP Copo	1.39	10	2400			17	2	80	7.5	600	960	960	960	-	750	750	-	V-0	V-0
Polyflam RPP 4115 MD	15% Talc, PP Homo and halogen-free	1.18	7	1950	-	-	17	11	19	2	600	960	960	960	-	775	775	-	-	V-0
Polyflam RPP 4225 CS 1	25% GF, PP Homo and halogen-free	1.26	4	7300	80	3	-	-	38	9	600	960	960	960	-	850	850	-	V2	V0
Polyflam RPP 4220 MD 16VO	20% GF, PP Homo and halogen-free	1.21	5	6400	72	3	-	-	35	7	600	960	960	960	-	800	800	-	-	V0
Polyflam RPP 4230 MD 16VO	30% GF, PP Homo and halogen-free	1.32	5	8500	80	2.6	-	-	35	8	600	960	960	960	-	775	775	-	-	V0
Polyflam RPP 4230 MD HI 16VO	30% GF, PP Homo, high impact and halogen-free	1.32	3	7200	60	5			45	12	600	960	960	960	-	775	775	-	-	V0
Polyflam RPP 4000	PP Homo, halogen-free	1.06	16	2600	20	15	25	3.3	28	3	600	960	960	960	750	750	750	-	V-0	V0
Polyflam RIPP 4000	PP Copo, halogen-free	1.05	13	2200	15	27	20	3.2	55	4	600	960	960	960	725	725	750	-	V-0	V0
Polyflam RIPP 4000 OSD	PP Copo, halogen-free and optimized smoke density	1.07	4	2100	15	50	20	3.3	NB	3	600	960	960	960	725	725	725	-	V-0	V0
Polyflam RIPP 490	PP Copo, halogen-free	1.04	9	1900	-		22	3	37	3	600	960	960	960	-	725	725	-	-	V0
Styrenics & Blends		220°C/10.0 kg																		
Polyflam RABS 90000 UV5	Unfilled ABS	1.2	30	2200	-	-	40	3	80	10	475	960	960	960	-	725	725	-	V-0	V-0
Polyflam RABS 3000	Unfilled ABS	1.17	30	2500	-	-	46	2.7	90	10	475	960	960	960	-	700	700	-	-	V-0
Ronfalin VE 101	Unfilled ABS	1.19	25	2500	40	8	45	3	65	11	350	960	960	960	-	700	700	-	V-0	V-0
Ronfalin VE 822	Unfilled ABS	1.2	40	2300	35	10	46	2.5	73	16	250	960	960	960	-	725	725	V-0 (1,0mm)	V-0	V-0
Polyflam RMMB 40400	Unfilled PC/ABS and halogen-free	1.18	28 260°C/5Kg	2400	-	-	63	5	NB	63	225	960	960	960	-	850	850	-	V-0	V-0
Polycarbonate		300°C/1.2 kg																		
Polyflam RPC 40400	Unfilled for injection molding	1.18	25	2400	-	-	60	5	NB	60	225	960	960	960	-	850	850	-	V-0	V-0
Perlex R5563	Unfilled for injection molding	1.2	12	2300	48	>50	-	-	NB	47	175	960	960	960	-	850	850	-	-	V-0
Perlex R5550	Unfilled and translucent	1.2	12	2300	-	>50	60	-	NB	35	175	960	960	960	-	-	-	-	V-2	V-0 (3,0mm)
Perlex R3510	Unfilled for injection molding	1.25	10	4050	83	5	-	-	68	6	175	960	960	960	-	800	800	-	-	V-0
Polystyrene		200°C/5.0 kg																		
Polyflam SDR 5005	Unfilled for injection molding	1.06	13	2550	27	35	33	1.6	70	7	425	960	960	960	-	700	700	-	-	V-2
Polyflam SDR 5005 HP25	Unfilled concentrate	1.19	35	2500	25	15	30	2	50	6	375	960	960	960	-	850	850	-	-	V-2
Polyflam HSF 36	Unfilled for injection molding	1.18	5	2100	-	-	25	2	80	10	350	960	960	960	-	650	650	-	-	V-0

About us

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